

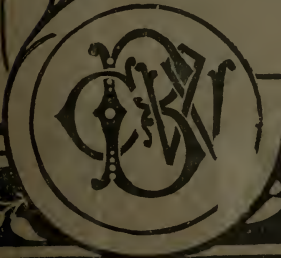
UC-NRLF



LB 278 889

SCHOOL
BULLETIN
PUBLICATIONS

Pestalozzian Series.
—
SECOND YEAR
TEXT-BOOK
OF
Arithmetic.
—
HOOSE.



REESE LIBRARY
OF THE
UNIVERSITY OF CALIFORNIA.

Received *Jan*, 1899.

Accession No. *74725*. Class No. *324*.

100



Digitized by the Internet Archive
in 2007 with funding from
Microsoft Corporation

THE PESTALOZZIAN SERIES.

SECOND-YEAR TEXT-BOOK

OF

PRIMARY ARITHMETIC.

For Pupils in the Second Grade, Second Year, of Public
Schools. Based upon Pestalozzi's System of
Teaching Elementary Number.

By JAMES H. HOOSE, A. M., Ph.D., F.S. Sc.,

Principal of the State Normal and Training School at Cortland,
N. Y., Author of "Studies in Articulation," "On the
Province of Methods of Teaching," etc.



SYRACUSE, N. Y.:
C. W. BARDEEN, PUBLISHER.
1890.

PA 152.
H 58

Copyright, 1890, by JAMES H. HOOSE.

74725

DEDICATED

To those teachers, who desire to say with Pestalozzi, "My aim was to carry the simplifying of all means of teaching so far that every common man can easily bring himself to teach his children, and to make the school gradually superfluous for the first elements."





MISCELLANEOUS REMARKS.

1. See the First-Year Text-Book for the elementary principles which control the form of this system of number. Miss Mary L. Roberts has had the immediate charge of the classes that have pursued this work, since the introduction of the system, Nov. 21, 1881. The system has been elaborated under my supervision. This Second-Year Text-Book contains the amount of work that has been actually accomplished during a series of years, by our second grade pupils (second year in school). The school year consists of two terms of twenty weeks each. Pupils not acquainted with the First-Year Text-Book have entered the second grade and have completed this book with the grade.

2. The principal portion of class-work is with abstract numbers; the teacher gives, once a week, several examples in concrete numbers (see the text); the pupils also construct practical examples upon the forms given in the daily lessons. The pupils use objects for a brief time only, in order to enable them to obtain a proper notion of number; after that notion is acquired, objects are discarded.

3. This book is for mental work; yet pupils write any lesson upon their slates for review or for special exercises. The book contains but little dictation work.

4. The processes of addition, multiplication, and subtraction, are taught with thoroughness. Examples in addition and subtraction include numbers that contain six figures.

5. In formal subtraction, no figure of the subtrahend is taken from a number that exceeds 10 — *e. g.*, the child is never asked to take 8 from 17, or 9 from 18, but follows the forms laid down in the text (which see).

6. Division is not introduced into the work of the second grade. Addition, multiplication, and subtraction appear.

7. The pupils are not taught formal numeration of numbers; they are not taught the terms “units,” “tens,” “hundreds,” etc.; they simply read and write the numbers at sight.

8. The new matter and forms introduced into this year’s work are formal subtraction and addition of numbers placed in vertical columns.

9. The Roman letters are continued in this grade; each letter is written carefully by itself alone—*e. g.*, six is written VI.

10. No tables are introduced to try to teach pupils the processes of addition, multiplication, and subtraction.

11. The teacher gives to the pupils no form for adding numbers together—*e. g.*, the children are not instructed to add by 10s, or by 20s, or by 4s, etc.; the child invents his own form of procedure.

12. The pupils are not taught (or allowed) to use the terms “to carry,” or “borrow,” in addition and subtraction.

13. Teachers will find ample explanatory notes distributed throughout the text.

14. A few forms in letters (pure algebra) are introduced. No explanations of them are made to the class, when these examples are reached; the pupils give the answer, then read the example and answer, precisely as they do with figures.

15. The pupils recite daily the lessons from the book; they become accustomed by this course to handle subject matter when it is set to them in the form of the printed page. The value of the black-board has its limitations in the recitation, when compared with the value of the text form.

16. The Pestalozzian system of number proceeds on the theory and practice of introducing to the pupil a minimum variety of objects, and of giving to him a maximum amount of practice upon a few forms. The forms are those which constitute mathematics; they are as general as mathematics are general; learned once, useful always.

The system recognizes the difference between processes in arithmetic, and the reasoning required

in so-called practical examples. The mastery of a process (addition, multiplication or subtraction) is a language, is an expertness, is a facility in procedure ; it is acquired by practice, repetition ; it is habit, which is power acting in a particular form. Practical examples introduce relations which are discovered by the logical aptitudes of mind. The child masters easily a form of operation, a process ; this mastery gives the pupil ambition ; this ambition to test in a greater degree his powers, constitutes his interest in his work ; his interest stimulates his courage. The pupil is trained in this manner in his moral character. The very uniformities in the system are sources of strength to the child, the same as the uniformities of action in learning the keyboard of the piano are the elements of mastery in learning to play the instrument.

State Normal and Training School, {
Cortland, N. Y., May, 1890. }

J. H. HOOSE.



SECOND-YEAR TEXT-BOOK.

LESSON I.

1. $3 \times 1 + 5 \times 1 + 4 \times 1 + 6 \times 1 = 18 \times 1.$
2. $7 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 =$
3. $6 \times 1 + 5 \times 1 + 7 \times 1 + 4 \times 1 =$
4. $7 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 =$
5. $9 \times 1 + 7 \times 1 + 4 \times 1 + 3 \times 1 =$
6. $8 \times 1 + 5 \times 1 + 3 \times 1 + 6 \times 1 =$
7. $7 \times 1 + 7 \times 1 + 7 \times 1 + 3 \times 1 =$
8. $8 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 =$
9. $6 \times 1 + 7 \times 1 + 3 \times 1 + 5 \times 1 =$
10. $9 \times 1 + 3 \times 1 + 8 \times 1 + 6 \times 1 =$
11. $7 \times 1 + 7 \times 1 + 3 \times 1 + 7 \times 1 =$
12. $9 \times 1 + 5 \times 1 + 6 \times 1 + 8 \times 1 =$
13. $4 \times 1 + 7 \times 1 + 3 \times 1 + 9 \times 1 =$
14. $8 \times 1 + 7 \times 1 + 3 \times 1 + 2 \times 1 =$
15. $5 \times 1 + 5 \times 1 + 8 \times 1 + 4 \times 1 =$
16. $7 \times 1 + 5 \times 1 + 6 \times 1 + 3 \times 1 =$
17. $3 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 =$
18. $8 \times 1 + 5 \times 1 + 5 \times 1 + 5 \times 1 =$
19. $9 \times 1 + 9 \times 1 + 3 \times 1 + 3 \times 1 =$

20. $8 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 =$

21. $3 \times 2 + 3 \times 2 + 2 \times 2 = 8 \times 2 = 16 \times 1.$

22. $5 \times 2 + 3 \times 2 + 2 \times 2 =$

23. $2 \times 2 + 3 \times 2 + 4 \times 2 =$

24. $2 \times 2 + 3 \times 2 + 2 \times 2 =$

25. $1 \times 2 + 1 \times 2 + 1 \times 2 =$

26. $2 \times 2 + 1 \times 2 + 3 \times 2 =$

27. $1 \times 2 + 2 \times 2 + 1 \times 2 =$

28. $1 \times 2 + 3 \times 2 + 1 \times 2 =$

29. $1 \times 3 + 1 \times 3 + 1 \times 3 =$

30. $2 \times 3 + 1 \times 3 + 2 \times 3 =$

31. $3 \times 3 + 2 \times 3 + 3 \times 3 =$

32. $3 \times 3 + 1 \times 3 + 3 \times 3 =$

33. $2 \times 3 + 5 \times 3 + 2 \times 3 =$

34. $1 \times 3 + 2 \times 3 + 1 \times 3 =$

35. $2 \times 3 + 6 \times 3 + 2 \times 3 =$

36. $1 \times 3 + 1 \times 3 + 4 \times 3 =$

37. $2 \times 3 + 3 \times 3 + 3 \times 3 =$

38. $3 \times 3 + 5 \times 3 + 1 \times 3 =$

39. II =

45. XIV =

40. IV =

46. XVII =

41. VI =

47. XVI =

42. III =

48. XXXV =

43. IX =

49. XIX =

44. XI =

50. XXVIII =

LESSON II.

1. $8 \times 1 + 7 \times 1 + 3 \times 1 + 4 \times 1 = 22 \times 1.$

2. $5 \times 1 + 7 \times 1 + 6 \times 1 + 3 \times 1 =$
3. $9 \times 1 + 4 \times 1 + 8 \times 1 + 2 \times 1 =$
4. $7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
5. $6 \times 1 + 3 \times 1 + 8 \times 1 + 7 \times 1 =$
6. $2 \times 1 + 9 \times 1 + 5 \times 1 + 8 \times 1 =$
7. $7 \times 1 + 4 \times 1 + 3 \times 1 + 6 \times 1 =$
8. $9 \times 1 + 2 \times 1 + 8 \times 1 + 7 \times 1 =$
9. $7 \times 1 + 9 \times 1 + 6 \times 1 + 5 \times 1 =$
10. $9 \times 1 + 4 \times 1 + 9 \times 1 + 4 \times 1 =$
11. $7 \times 1 + 5 \times 1 + 5 \times 1 + 7 \times 1 =$
12. $9 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 =$
13. $4 \times 1 + 8 \times 1 + 4 + 1 + 9 \times 1 =$
14. $7 \times 1 + 6 \times 1 + 9 \times 1 + 3 \times 1 =$
15. $9 \times 1 + 9 \times 1 + 3 \times 1 + 5 \times 1 =$
16. $8 \times 1 + 8 \times 1 + 3 \times 1 + 6 \times 1 =$
17. $9 \times 1 + 9 \times 1 + 9 \times 1 + 2 \times 1 =$
18. $3 \times 1 + 9 \times 1 + 5 \times 1 + 9 \times 1 =$
19. $4 \times 1 + 8 \times 1 + 9 \times 1 + 3 \times 1 =$
20. $5 \times 1 + 5 \times 1 + 8 \times 1 + 8 \times 1 =$
21. $2 \times 2 + 2 \times 2 + 2 \times 2 = 6 \times 2 = 12 \times 1.$
22. $3 \times 2 + 2 \times 2 + 3 \times 2 =$
23. $2 \times 2 + 2 \times 2 + 1 \times 2 =$
24. $4 \times 2 + 3 \times 2 + 2 \times 2 =$
25. $3 \times 2 + 3 \times 2 + 4 \times 2 =$
26. $2 \times 2 + 1 \times 2 + 1 \times 2 =$
27. $4 \times 2 + 2 \times 2 + 1 \times 2 =$
28. $2 \times 2 + 3 \times 2 + 3 \times 2 =$

29. $5 \times 2 + 2 \times 2 + 1 \times 2 =$

30. $3 \times 2 + 4 \times 2 + 2 \times 2 =$

31. $1 \times 2 + 2 \times 2 + 3 \times 2 =$

32. $2 \times 2 + 3 \times 2 + 4 \times 2 =$

33. $6 \times 2 + 1 \times 2 + 1 \times 2 =$

34. $7 \times 2 + 1 \times 2 + 2 \times 2 =$

35. $2 \times 2 + 5 \times 2 + 4 \times 2 =$

36. $3 \times 2 + 1 \times 2 + 1 \times 2 =$

37. $2 \times 2 + 4 \times 2 + 3 \times 2 =$

38. $1 \times 2 + 3 \times 2 + 1 \times 2 =$

39. $1 \times 2 + 2 \times 2 + 1 \times 2 =$

40. $3 \times 2 + 1 \times 2 + 2 \times 2 =$

41. $2 \times 3 + 3 \times 3 + 3 \times 3 =$

42. $3 \times 3 + 2 \times 3 + 5 \times 3 =$

43. $1 \times 3 + 1 \times 3 + 1 \times 3 =$

44. $2 \times 3 + 2 \times 3 + 3 \times 3 =$

45. $3 \times 3 + 3 \times 3 + 1 \times 3 =$

46. $2 \times 3 + 3 \times 3 + 3 \times 3 =$

47. $1 \times 3 + 1 \times 3 + 3 \times 3 =$

48. $2 \times 3 + 3 \times 3 + 1 \times 3 =$

49. $3 \times 3 + 1 \times 3 + 1 \times 3 =$

50. $1 \times 3 + 2 \times 3 + 1 \times 3 =$

$10 \times 3 =$

$7 \times 3 =$

$9 \times 3 =$

$5 \times 3 =$

$8 \times 3 =$

$4 \times 3 =$

$6 \times 3 =$

$2 \times 3 =$

$2 \times 3 =$

$3 \times 3 =$

LESSON III.

1. $3 \times 1 + 6 \times 1 + 4 \times 1 + 6 \times 1 = 19 \times 1.$
2. $7 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 =$
3. $9 \times 1 + 6 \times 1 + 7 \times 1 + 3 \times 1 =$
4. $8 \times 1 + 5 \times 1 + 9 \times 1 + 4 \times 1 =$
5. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
6. $6 \times 1 + 9 \times 1 + 4 \times 1 + 5 \times 1 =$
7. $8 \times 1 + 4 \times 1 + 7 \times 1 + 2 \times 1 =$
8. $9 \times 1 + 9 \times 1 + 3 \times 1 + 6 \times 1 =$
9. $7 \times 1 + 5 \times 1 + 4 \times 1 + 6 \times 1 =$
10. $8 \times 1 + 7 \times 1 + 9 \times 1 + 4 \times 1 =$
11. $9 \times 1 + 8 \times 1 + 3 \times 1 + 2 \times 1 =$
12. $7 \times 1 + 9 \times 1 + 6 \times 1 + 4 \times 1 =$
13. $5 \times 1 + 8 \times 1 + 3 \times 1 + 4 \times 1 =$
14. $9 \times 1 + 7 \times 1 + 2 \times 1 + 6 \times 1 =$
15. $8 \times 1 + 5 \times 1 + 4 \times 1 + 8 \times 1 =$
16. $7 \times 1 + 9 \times 1 + 5 \times 1 + 9 \times 1 =$
17. $9 \times 1 + 6 \times 1 + 7 \times 1 + 3 \times 1 =$
18. $8 \times 1 + 8 \times 1 + 3 \times 1 + 8 \times 1 =$
19. $2 \times 1 + 9 \times 1 + 5 \times 1 + 4 \times 1 =$
20. $7 \times 1 + 6 \times 1 + 9 \times 1 + 3 \times 1 =$
21. $3 \times 2 + 2 \times 2 + 3 \times 2 = 8 \times 2 = 16 \times 1.$
22. $4 \times 2 + 3 \times 2 + 2 \times 2 =$
23. $2 \times 2 + 3 \times 2 + 1 \times 2 =$
24. $3 \times 2 + 1 \times 2 + 1 \times 2 =$
25. $1 \times 2 + 1 \times 2 + 1 \times 2 =$
26. $2 \times 2 + 1 \times 2 + 1 \times 2 =$

27. $3 \times 2 + 3 \times 2 + 4 \times 2 =$

28. $2 \times 2 + 3 \times 2 + 3 \times 2 =$

29. $3 \times 2 + 4 \times 2 + 2 \times 2 =$

30. $2 \times 2 + 3 \times 2 + 1 \times 2 =$

31. $4 \times 2 + 4 \times 2 + 2 \times 2 =$

32. $1 \times 2 + 1 \times 2 + 2 \times 2 =$

33. $5 \times 2 + 5 \times 2 + 1 \times 2 =$

34. $2 \times 2 + 2 \times 2 + 2 \times 2 =$

35. $3 \times 2 + 3 \times 2 + 1 \times 2 =$

36. $5 \times 3 + 2 \times 3 + 1 \times 3 =$

37. $3 \times 3 + 3 \times 3 + 3 \times 3 =$

38. $4 \times 3 + 3 \times 3 + 2 \times 3 =$

39. $1 \times 3 + 2 \times 3 + 3 \times 3 =$

40. $2 \times 3 + 1 \times 3 + 2 \times 3 =$

41. $2 \times 3 + 2 \times 3 + 3 \times 3 =$

42. $3 \times 3 + 2 \times 3 + 2 \times 3 =$

43. $3 \times 3 + 5 \times 3 + 2 \times 3 =$

44. $7 \times 3 + 1 \times 3 + 1 \times 3 =$

45. $5 \times 3 + 1 \times 3 + 3 \times 3 =$

46. $3 \times 3 + 1 \times 3 + 5 \times 3 =$

47. $6 \times 3 + 2 \times 3 + 3 \times 3 =$

48. $3 \times 3 + 5 \times 3 + 2 \times 3 =$

49. $2 \times 3 + 2 \times 3 + 4 \times 3 =$

50. $3 \times 3 + 2 \times 3 + 2 \times 3 =$

$9 \times 3 = \quad 9 \times 2 = \quad 2 \times 3 =$

$8 \times 2 = \quad 5 \times 3 = \quad 4 \times 2 =$

$6 \times 3 = \quad 7 \times 2 = \quad 4 \times 3 =$

$$\begin{array}{lll} 5 \times 2 = & 8 \times 3 = & 2 \times 2 = \\ 7 \times 3 = & 6 \times 2 = & 3 \times 3 = \end{array}$$

LESSON IV.

1. James has 8 cts., George has 9 cts., and Kate has 10 cts.; how many cents have they all?

Ans. They have 27 cents.

2. There are 2 pints in 1 quart; how many pints in 7 quarts? *Ans.* There are 7×2 pints, which are 14 pints.

3. How many pints in 9 quarts?

4. " " " " 12 "

5. A man paid \$18 for a coat and \$6 for a hat; how much did he pay for both?

6. There are 3 feet in 1 yard; how many feet in 7 yards?

7. How many feet in 4 yards?

8. " " " " 9 "

9. What will 6 pencils cost at 3 cts. each?

10. " " 12 " " " 2 " "

11. $9 \times 1 + 6 \times 1 + 4 \times 1 + 5 \times 1 = 24 \times 1$

12. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$

13. $7 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$

14. $8 \times 1 + 4 \times 1 + 7 \times 1 + 6 \times 1 =$

15. $9 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$

16. $6 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$

17. $7 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 =$

18. $10 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 =$

19. $8 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 =$

20. $7 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 =$

$9 \times 4 =$ $3 \times 3 =$

$7 \times 4 =$ $8 \times 3 =$

$5 \times 4 =$ $5 \times 3 =$

$8 \times 4 =$ $4 \times 3 =$

$11 \times 4 =$ $7 \times 3 =$

$12 \times 4 =$ $12 \times 3 =$

$2 \times 4 =$ $6 \times 3 =$

$6 \times 4 =$ $9 \times 3 =$

$10 \times 4 =$ $10 \times 3 =$

$7 \times 4 =$ $11 \times 3 =$

$4 \times 4 =$

LESSON V.

1. $8 \times 1 + 6 \times 1 + 3 \times 1 + 1 \times 1 = 18 \times 1$

2. $7 \times 1 + 9 \times 1 + 5 \times 1 + 9 \times 1 =$

3. $3 \times 1 + 6 \times 1 + 9 \times 1 + 5 \times 1 =$

4. $4 \times 1 + 5 \times 1 + 3 \times 1 + 6 \times 1 =$

5. $5 \times 1 + 4 \times 1 + 4 \times 1 + 5 \times 1 =$

6. $6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 =$

7. $4 \times 1 + 9 \times 1 + 7 \times 1 + 1 \times 1 =$

8. $3 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 =$

9. $5 \times 1 + 9 \times 1 + 4 \times 1 + 7 \times 1 =$

10. $9 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 =$

11. $5 \times 1 + 8 \times 1 + 4 \times 1 + 7 \times 1 =$

12. $9 \times 1 + 9 \times 1 + 7 \times 1 + 5 \times 1 =$
13. $6 \times 1 + 4 \times 1 + 8 \times 1 + 3 \times 1 =$
14. $7 \times 1 + 5 \times 1 + 4 \times 1 + 9 \times 1 =$
15. $8 \times 1 + 8 \times 1 + 5 \times 1 + 7 \times 1 =$
16. $3 \times 2 + 3 \times 2 + 2 \times 2 = 8 \times 2 = 16 \times 1$
17. $2 \times 2 + 3 \times 2 + 5 \times 2 =$
18. $4 \times 2 + 1 \times 2 + 2 \times 2 =$
19. $2 \times 2 + 3 \times 2 + 2 \times 2 =$
20. $1 \times 2 + 2 \times 2 + 1 \times 2 =$
21. $1 \times 2 + 1 \times 2 + 3 \times 2 =$
22. $1 \times 2 + 1 \times 2 + 1 \times 2 =$
23. $3 \times 3 + 2 \times 3 + 1 \times 3 =$
24. $3 \times 3 + 3 \times 3 + 3 \times 3 =$
25. $2 \times 3 + 3 \times 3 + 1 \times 3 =$
26. $1 \times 3 + 2 \times 3 + 4 \times 3 =$
27. $3 \times 3 + 2 \times 3 + 3 \times 3 =$
28. $1 \times 3 + 3 \times 3 + 6 \times 3 =$
29. $3 \times 4 + 2 \times 4 + 3 \times 4 =$
30. $2 \times 4 + 3 \times 4 + 4 \times 4 =$
31. $1 \times 4 + 1 \times 4 + 2 \times 4 =$
32. $2 \times 4 + 1 \times 4 + 3 \times 4 =$
33. $1 \times 4 + 1 \times 4 + 5 \times 4 =$
34. $2 \times 4 + 4 \times 4 + 4 \times 4 =$
35. $1 \times 4 + 1 \times 4 + 3 \times 4 =$
36. $2 \times 4 + 3 \times 4 + 5 \times 4 =$
37. $1 \times 4 + 2 \times 4 + 4 \times 4 =$
38. $3 \times 4 + 3 \times 4 + 1 \times 4 =$

39. $1 \times 4 + 1 \times 4 + 1 \times 4 =$
 40. $2 \times 4 + 1 \times 4 + 1 \times 4 =$
 41. IX = 46. XIV =
 42. XXI = 47. XXIX =
 43. XIX = 48. XVII =
 44. XXXVIII = 49. XXIII =
 45. XVI = 50. L =
 $10 \times 4 =$ $4 \times 4 =$ $7 \times 3 =$
 $9 \times 4 =$ $3 \times 4 =$ $6 \times 3 =$
 $8 \times 4 =$ $2 \times 4 =$ $5 \times 3 =$
 $7 \times 4 =$ $10 \times 3 =$ $4 \times 3 =$
 $6 \times 4 =$ $9 \times 3 =$ $3 \times 3 =$
 $5 \times 4 =$ $8 \times 3 =$ $2 \times 3 =$

LESSON VI.

1. $3 \times 5 + 2 \times 5 + 3 \times 5 = 8 \times 5 = 40 \times 1$
2. $2 \times 5 + 2 \times 5 + 2 \times 5 =$
3. $1 \times 5 + 3 \times 5 + 4 \times 5 =$
4. $2 \times 5 + 1 \times 5 + 4 \times 5 =$
5. $1 \times 5 + 1 \times 5 + 3 \times 5 =$
6. $1 \times 5 + 1 \times 5 + 2 \times 5 =$
7. $1 \times 5 + 1 \times 5 + 1 \times 5 =$
8. $3 \times 5 + 2 \times 5 + 5 \times 5 =$
9. $5 \times 5 + 1 \times 5 + 4 \times 5 =$
10. $2 \times 5 + 1 \times 5 + 4 \times 5 =$
11. $3 \times 4 + 3 \times 4 + 2 \times 4 =$
12. $2 \times 4 + 3 \times 4 + 5 \times 4 =$

13. $3 \times 4 + 1 \times 4 + 1 \times 4 =$

14. $2 \times 4 + 2 \times 4 + 3 \times 4 =$

15. $1 \times 4 + 1 \times 4 + 1 \times 4 =$

16. $3 \times 4 + 3 \times 4 + 4 \times 4 =$

17. $2 \times 4 + 1 \times 4 + 2 \times 4 =$

18. $4 \times 4 + 4 \times 4 + 1 \times 4 =$

19. $3 \times 4 + 2 \times 4 + 1 \times 4 =$

20. $2 \times 4 + 4 \times 4 + 2 \times 4 =$

21. $3 \times 3 + 2 \times 3 + 4 \times 3 =$

22. $2 \times 3 + 1 \times 3 + 1 \times 3 =$

23. $3 \times 3 + 5 \times 3 + 2 \times 3 =$

24. $1 \times 3 + 1 \times 3 + 1 \times 3 =$

25. $5 \times 3 + 1 \times 3 + 1 \times 3 =$

26. $2 \times 3 + 4 \times 3 + 2 \times 3 =$

27. $1 \times 3 + 1 \times 3 + 3 \times 3 =$

28. $1 \times 3 + 3 \times 3 + 2 \times 3 =$

29. $3 \times 2 + 2 \times 2 + 4 \times 2 =$

30. $2 \times 2 + 3 \times 2 + 2 \times 2 =$

31. $4 \times 2 + 2 \times 2 + 4 \times 2 =$

32. $4 \times 2 + 2 \times 2 + 2 \times 2 =$

33. $2 \times 2 + 1 \times 2 + 3 \times 2 =$

34. $1 \times 2 + 2 \times 2 + 1 \times 2 =$

35. $2 \times 2 + 1 \times 2 + 2 \times 2 =$

36. $3 \times 2 + 1 \times 2 + 3 \times 2 =$

37. $6 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 3 \times 1 = 28 \times 1$

38. $7 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 5 \times 1 =$

39. $3 \times 1 + 9 \times 1 + 6 \times 1 + 3 \times 1 + 6 \times 1 =$

40. $7 \times 1 + 5 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 =$

41. $6 \times 1 + 6 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$

42. $7 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 7 \times 1 =$

43. $9 \times 1 + 5 \times 1 + 3 \times 1 + 8 \times 1 + 4 \times 1 =$

44. $8 \times 1 + 4 \times 1 + 8 \times 1 + 4 \times 1 + 3 \times 1 =$

45. $9 \times 1 + 6 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 =$

46. $7 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 3 \times 1 =$

47. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 4 \times 1 =$

48. $7 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 =$

49. $5 \times 1 + 4 \times 1 + 3 \times 1 + 7 \times 1 + 6 \times 1 =$

50. $6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$

LESSON VII.

1. $2 \times 5 + 2 \times 5 + 2 \times 5 = 6 \times 5 = 30 \times 1.$

2. $3 \times 5 + 3 \times 5 + 3 \times 5 =$

3. $4 \times 5 + 4 \times 5 + 2 \times 5 =$

4. $3 \times 5 + 3 \times 5 + 2 \times 5 =$

5. $2 \times 5 + 2 \times 5 + 1 \times 5 =$

6. $3 \times 5 + 3 \times 5 + 1 \times 5 =$

7. $2 \times 5 + 2 \times 5 + 1 \times 5 =$

8. $1 \times 5 + 1 \times 5 + 1 \times 5 =$

9. $1 \times 5 + 1 \times 5 + 2 \times 5 =$

10. $3 \times 6 + 2 \times 5 + 2 \times 6 =$

11. $4 \times 6 + 5 \times 6 + 1 \times 6 =$

12. $1 \times 6 + 3 \times 6 + 1 \times 6 =$

13. $2 \times 6 + 6 \times 6 + 1 \times 6 =$

14. $6 \times 6 + 1 \times 6 + 1 \times 6 =$

15. $1 \times 6 + 2 \times 6 + 3 \times 6 =$

16. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
 17. $2 \times 6 + 1 \times 6 + 1 \times 6 =$
 18. $3 \times 6 + 5 \times 6 + 1 \times 6 =$
 19. $1 \times 6 + 3 \times 6 + 4 \times 6 =$
 20. $1 \times 6 + 5 \times 6 + 4 \times 6 =$
 21. $2 \times 6 + 1 \times 6 + 4 \times 6 =$
 22. $3 \times 4 + 2 \times 4 + 3 \times 4 =$
 23. $2 \times 4 + 3 \times 4 + 1 \times 4 =$
 24. $1 \times 4 + 4 \times 4 + 4 \times 4 =$
 25. $2 \times 4 + 3 \times 4 + 2 \times 4 =$
 26. $1 \times 4 + 1 \times 4 + 2 \times 4 =$
 27. $2 \times 4 + 3 \times 4 + 1 \times 4 =$
 28. $3 \times 4 + 3 \times 4 + 3 \times 4 =$
 29. $3 \times 3 + 2 \times 3 + 4 \times 3 =$
 30. $1 \times 3 + 2 \times 3 + 1 \times 3 =$
 31. $5 \times 3 + 1 \times 3 + 2 \times 3 =$
 32. $2 \times 3 + 4 \times 3 + 1 \times 3 =$
 33. $1 \times 3 + 4 \times 3 + 5 \times 3 =$
 34. $2 \times 3 + 1 \times 3 + 2 \times 3 =$
 35. $2 \times 3 + 2 \times 3 + 2 \times 3 =$
 36. $1 \times 3 + 1 \times 3 + 1 \times 3 =$
 37. LIII =
 38. XLIV =
 39. XXXI =
 40. LX =
 41. LXXI =
 42. LXIX =
 43. LXXV =
 44. LXXIV =
 45. LXXXVI =
 46. LXXVIII =
 47. C =
 48. XC =
 49. CIX =
 50. CV =

LESSON VIII.

1. $3 \times 6 + 1 \times 6 + 1 \times 6 = 5 \times 6 = 30 \times 1.$
2. $1 \times 6 + 2 \times 6 + 3 \times 6 =$
3. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
4. $2 \times 6 + 4 \times 6 + 3 \times 6 =$
5. $3 \times 6 + 2 \times 6 + 2 \times 6 =$
6. $1 \times 6 + 1 \times 6 + 2 \times 6 =$
7. $3 \times 6 + 4 \times 6 + 1 \times 6 =$
8. $4 \times 6 + 4 \times 6 + 1 \times 6 =$
9. $2 \times 5 + 3 \times 5 + 1 \times 5 =$
10. $3 \times 5 + 4 \times 5 + 2 \times 5 =$
11. $2 \times 5 + 3 \times 5 + 3 \times 5 =$
12. $3 \times 5 + 2 \times 5 + 1 \times 5 =$
13. $2 \times 5 + 1 \times 5 + 1 \times 5 =$
14. $1 \times 5 + 1 \times 5 + 1 \times 5 =$
15. $3 \times 4 + 2 \times 4 + 2 \times 4 =$
16. $7 \times 4 + 1 \times 4 + 1 \times 4 =$
17. $1 \times 4 + 4 \times 4 + 1 \times 4 =$
18. $2 \times 4 + 2 \times 4 + 4 \times 4 =$
19. $3 \times 3 + 3 \times 3 + 3 \times 3 =$
20. $1 \times 3 + 1 \times 3 + 3 \times 3 =$
21. $1 \times 3 + 3 \times 3 + 3 \times 3 =$
22. $3 \times 3 + 2 \times 3 + 5 \times 3 =$
23. $1 \times 3 + 1 \times 3 + 1 \times 3 =$
24. $2 \times 3 + 2 \times 3 + 1 \times 3 =$
25. $1 \times 2 + 5 \times 2 + 4 \times 2 =$
26. $2 \times 2 + 5 \times 2 + 1 \times 2 =$

27. $3 \times 2 + 1 \times 2 + 2 \times 2 =$
 28. $2 \times 2 + 2 \times 2 + 3 \times 2 =$
 29. $3 \times 1 + 5 \times 1 + 6 \times 1 + 4 \times 1 + 7 \times 1 = 25 \times 1.$
 30. $5 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 3 \times 1 =$
 31. $9 \times 1 + 4 \times 1 + 3 \times 1 + 5 \times 1 + 6 \times 1 =$
 32. $7 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 5 \times 1 =$
 33. $6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$
 34. $5 \times 1 + 5 \times 1 + 7 \times 1 + 3 \times 1 + 4 \times 1 =$
 35. $8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
 36. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
 37. $10 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 + 6 \times 1 =$
 38. $8 \times 1 + 4 \times 1 + 7 \times 1 + 3 \times 1 + 8 \times 1 =$
 39. $6 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 + 8 \times 1 =$
 40. $3 \times 1 + 8 \times 1 + 8 \times 1 + 5 \times 1 + 5 \times 1 =$
 41. $33 = \text{XXXIII}.$ 46. $65 =$
 42. $26 =$ 47. $73 =$
 43. $37 =$ 48. $44 =$
 44. $54 =$ 49. $11 =$
 45. $18 =$ 50. $31 =$

LESSON IX.

1. How many feet in 5 yards? *Ans.* There are 5×3 ft. which are 15 ft.
2. How many feet in 9 yards?
3. How many pints in 7 quarts?
4. Charlie has 9 cts., George has 11 cts., and Fred has 8 cts.; how many cents have the three boys together?

5. There are 4 quarts in one gallon; how many quarts in 4 gallons?

6. How many quarts in 8 gallons?

7. How many quarts in 9 gallons?

8. There are 4 weeks in one month; how many weeks in 7 months?

9. How many weeks in 4 months?

10. I paid 12 cts. for a slate, 11 cts. for a book, 8 cts. for an eraser, and 7 cts. for a pencil; how much did I pay for all?

$$11. 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 = 35 \times 1.$$

$$12. 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$13. 11 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 =$$

$$14. 5 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 =$$

$$15. 6 \times 1 + 7 \times 1 + 3 \times 1 + 9 \times 1 + 7 \times 1 =$$

$$16. 9 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 9 \times 1 =$$

$$17. 7 \times 1 + 8 \times 1 + 9 \times 1 + 10 \times 1 + 3 \times 1 =$$

$$18. 8 \times 1 + 6 \times 1 + 4 \times 1 + 10 \times 1 + 6 \times 1 =$$

$$19. 7 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$$

$$20. 6 \times 1 + 7 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$$

$$21. 7 \times 1 + 8 \times 1 + 10 \times 1 + 5 \times 1 + 7 \times 1 =$$

$$22. 6 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 =$$

$$23. 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$$

$$24. 8 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$25. 11 \times 1 + 10 \times 1 + 9 \times 1 + 3 \times 1 + 4 \times 1 =$$

LESSON X.

$$1. 9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 = 27 \times 1.$$

2. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$
3. $9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$
4. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
5. $6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$
6. $8 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 =$
7. $10 \times 1 + 10 \times 1 + 5 \times 1 + 8 \times 1 =$
8. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
9. $7 \times 1 + 9 \times 1 + 5 \times 1 + 7 \times 1 =$
10. $6 \times 1 + 10 \times 1 + 11 \times 1 + 7 \times 1 =$
11. $6 \times 1 + 5 \times 1 + 7 \times 1 + 5 \times 1 =$
12. $11 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 =$
13. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$
14. $12 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 =$
15. $12 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 =$
16. $13 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 =$
17. $9 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 =$
18. $14 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
19. $13 \times 1 + 10 \times 1 + 5 \times 1 + 7 \times 1 =$
20. $6 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 =$
21. $3 \times 6 + 2 \times 6 + 3 \times 6 = 8 \times 6 = 48 \times 1.$
22. $2 \times 6 + 5 \times 6 + 2 \times 6 =$
23. $1 \times 6 + 1 \times 6 + 2 \times 6 =$
24. $2 \times 6 + 3 \times 6 + 1 \times 6 =$
25. $3 \times 6 + 5 \times 6 + 2 \times 6 =$
26. $2 \times 6 + 1 \times 6 + 2 \times 6 =$
27. $2 \times 6 + 4 \times 6 + 1 \times 6 =$
28. $3 \times 6 + 5 \times 6 + 1 \times 6 =$

29. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

30. $2 \times 5 + 1 \times 5 + 2 \times 5 =$

31. $3 \times 5 + 2 \times 5 + 2 \times 5 =$

32. $4 \times 5 + 1 \times 5 + 3 \times 5 =$

33. $3 \times 5 + 2 \times 5 + 4 \times 5 =$

34. $2 \times 5 + 2 \times 5 + 2 \times 5 =$

35. $1 \times 5 + 1 \times 5 + 1 \times 5 =$

36. $3 \times 5 + 5 \times 5 + 2 \times 5 =$

37. $2 \times 4 + 3 \times 4 + 3 \times 4 =$

38. $3 \times 4 + 3 \times 4 + 3 \times 4 =$

39. $2 \times 4 + 2 \times 4 + 3 \times 4 =$

40. $1 \times 4 + 3 \times 4 + 2 \times 4 =$

41. $3 \times 3 + 2 \times 3 + 1 \times 3 =$

42. $2 \times 3 + 3 \times 3 + 4 \times 3 =$

43. $3 \times 3 + 1 \times 3 + 3 \times 3 =$

44. $5 \times 2 + 1 \times 2 + 4 \times 2 =$

45. $2 \times 2 + 2 \times 2 + 3 \times 2 =$

46. $3 \times 2 + 3 \times 2 + 2 \times 2 =$

47. $2 \times 2 + 2 \times 2 + 1 \times 2 =$

48. $1 \times 2 + 1 \times 2 + 1 \times 2 =$

49. $3 \times 2 + 1 \times 2 + 1 \times 2 =$

50. $2 \times 2 + 4 \times 2 + 3 \times 2 =$

LESSON XI.

1. $6 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 + 3 \times 1 = 26 \times 1.$

2. $7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 4 \times 1 =$

3. $9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 3 \times 1 =$

4. $7 \times 1 + 10 \times 1 + 6 \times 1 + 8 \times 1 + 5 \times 1 =$
5. $11 \times 1 + 5 \times 1 + 7 \times 1 + 4 \times 1 + 6 \times 1 =$
6. $12 \times 1 + 12 \times 1 + 5 \times 1 + 9 \times 1 + 7 \times 1 =$
7. $8 \times 1 + 11 \times 1 + 5 \times 1 + 7 \times 1 + 6 \times 1 =$
8. $11 \times 1 + 11 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 =$
9. $12 \times 1 + 5 \times 1 + 6 \times 1 + 3 \times 1 + 2 \times 1 =$
10. $8 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 4 \times 1 =$
11. $9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 4 \times 1 =$
12. $7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 3 \times 1 =$
13. $7 \times 1 + 3 \times 1 + 9 \times 1 + 9 \times 1 + 3 \times 1 =$
14. $5 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
15. $9 \times 1 + 5 \times 1 + 7 \times 1 + 9 \times 1 + 3 \times 1 =$
16. $11 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 5 \times 1 =$
17. $10 \times 1 + 7 \times 1 + 5 \times 1 + 5 \times 1 + 2 \times 1 =$
18. $12 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 =$
19. $11 \times 1 + 9 \times 1 + 7 \times 1 + 7 \times 1 + 5 \times 1 =$
20. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
21. $3 \times 7 + 2 \times 7 + 3 \times 7 = 8 \times 7 = 56 \times 1.$
22. $2 \times 7 + 3 \times 7 + 2 \times 7 =$
23. $4 \times 7 + 1 \times 7 + 4 \times 7 =$
24. $2 \times 7 + 2 \times 7 + 1 \times 7 =$
25. $1 \times 7 + 4 \times 7 + 1 \times 7 =$
26. $1 \times 7 + 1 \times 7 + 1 \times 7 =$
27. $2 \times 7 + 1 \times 7 + 1 \times 7 =$
28. $1 \times 7 + 3 \times 7 + 2 \times 7 =$
29. $3 \times 7 + 3 \times 7 + 4 \times 7 =$
30. $2 \times 6 + 3 \times 6 + 3 \times 6 =$

31. $5 \times 6 + 1 \times 6 + 1 \times 6 =$

32. $3 \times 6 + 4 \times 6 + 2 \times 6 =$

33. $2 \times 6 + 1 \times 6 + 1 \times 6 =$

34. $3 \times 6 + 2 \times 6 + 1 \times 6 =$

35. $2 \times 6 + 1 \times 6 + 2 \times 6 =$

36. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

37. $8 \times 6 + 1 \times 6 + 1 \times 6 =$

38. $3 \times 5 + 4 \times 5 + 1 \times 5 =$

39. $1 \times 5 + 1 \times 5 + 5 \times 5 =$

40. $2 \times 5 + 2 \times 5 + 5 \times 5 =$

41. $3 \times 5 + 1 \times 5 + 2 \times 5 =$

42. $1 \times 5 + 1 \times 5 + 1 \times 5 =$

43. $2 \times 5 + 1 \times 5 + 1 \times 5 =$

44. $3 \times 4 + 3 \times 4 + 2 \times 4 =$

45. $2 \times 4 + 4 \times 4 + 2 \times 4 =$

46. $3 \times 4 + 4 \times 4 + 2 \times 4 =$

47. $3 \times 3 + 1 \times 3 + 5 \times 3 =$

48. $2 \times 3 + 1 \times 3 + 4 \times 3 =$

49. $1 \times 3 + 2 \times 3 + 4 \times 3 =$

50. $2 \times 3 + 2 \times 3 + 2 \times 3 =$

$10 \times 7 =$ $4 \times 7 =$ $7 \times 6 =$

$9 \times 7 =$ $3 \times 7 =$ $6 \times 6 =$

$8 \times 7 =$ $2 \times 7 =$ $5 \times 6 =$

$7 \times 7 =$ $10 \times 6 =$ $4 \times 6 =$

$6 \times 7 =$ $9 \times 6 =$ $3 \times 6 =$

$5 \times 7 =$ $8 \times 6 =$ $2 \times 6 =$

LESSON XII.

1. $10 \times 1 + 10 \times 1 + 6 \times 1 + 6 \times 1 = 32 \times 1.$
2. $12 \times 1 + 5 \times 1 + 7 \times 1 + 4 \times 1 =$
3. $9 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 =$
4. $11 \times 1 + 12 \times 1 + 5 \times 1 + 3 \times 1 =$
5. $9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
6. $8 \times 1 + 8 \times 1 + 8 \times 1 + 3 \times 1 =$
7. $9 \times 1 + 6 \times 1 + 5 \times 1 + 8 \times 1 =$
8. $8 \times 1 + 9 \times 1 + 5 \times 1 + 4 \times 1 =$
9. $11 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 =$
10. $10 \times 1 + 5 \times 1 + 10 \times 1 + 5 \times 1 =$
11. $10 \times 1 - 5 \times 1 = 5 \times 1.$
20. $7 \times 1 - 5 \times 1 =$
12. $9 \times 1 - 7 \times 1 =$
21. $9 \times 1 - 5 \times 1 =$
13. $10 \times 1 - 8 \times 1 =$
22. $10 \times 1 - 4 \times 1 =$
14. $10 \times 1 - 6 \times 1 =$
23. $10 \times 1 - 9 \times 1 =$
15. $8 \times 1 - 3 \times 1 =$
24. $9 \times 1 - 6 \times 1 =$
16. $9 \times 1 - 3 \times 1 =$
25. $10 \times 1 - 7 \times 1 =$
17. $10 \times 1 - 3 \times 1 =$
26. $8 \times 1 - 4 \times 1 =$
18. $8 \times 1 - 5 \times 1 =$
27. $10 \times 1 - 1 \times 1 =$
19. $9 \times 1 - 4 \times 1 =$
28. $9 \times 1 - 1 \times 1 =$
29. $5 \times 7 + 1 \times 7 + 2 \times 7 = 8 \times 7 = 56 \times 1.$
30. $2 \times 7 + 3 \times 7 + 4 \times 7 =$
31. $3 \times 7 + 1 \times 7 + 1 \times 7 =$
32. $1 \times 7 + 3 \times 7 + 2 \times 7 =$
33. $3 \times 7 + 4 \times 7 + 1 \times 7 =$
34. $1 \times 7 + 1 \times 7 + 1 \times 7 =$
35. $2 \times 7 + 4 \times 7 + 4 \times 7 =$

36. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

37. $3 \times 6 + 4 \times 6 + 2 \times 6 =$

38. $3 \times 6 + 1 \times 6 + 3 \times 6 =$

39. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

40. $2 \times 6 + 5 \times 6 + 1 \times 6 =$

41. $3 \times 6 + 1 \times 6 + 1 \times 6 =$

42. $2 \times 6 + 1 \times 6 + 1 \times 6 =$

43. $6 \times 6 + 1 \times 6 + 1 \times 6 =$

44. $3 \times 5 + 4 \times 5 + 2 \times 5 =$

45. $2 \times 5 + 3 \times 5 + 2 \times 5 =$

46. $1 \times 5 + 2 \times 5 + 5 \times 5 =$

47. $3 \times 4 + 2 \times 4 + 3 \times 4 =$

48. $2 \times 4 + 2 \times 4 + 6 \times 4 =$

49. $1 \times 4 + 3 \times 4 + 5 \times 4 =$

50. $1 \times 4 + 1 \times 4 + 5 \times 4 =$

LESSON XIII.

1. $3 \times 8 + 3 \times 8 + 2 \times 8 = 8 \times 8 = 64 \times 1.$

2. $2 \times 8 + 4 \times 8 + 4 \times 8 =$

3. $3 \times 8 + 3 \times 8 + 1 \times 8 =$

4. $1 \times 8 + 1 \times 8 + 2 \times 8 =$

5. $4 \times 8 + 4 \times 8 + 1 \times 8 =$

6. $1 \times 8 + 1 \times 8 + 4 \times 8 =$

7. $2 \times 8 + 2 \times 8 + 1 \times 8 =$

8. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

9. $2 \times 8 + 4 \times 8 + 2 \times 8 =$

10. $3 \times 7 + 3 \times 7 + 3 \times 7 =$

11. $2 \times 7 + 1 \times 7 + 3 \times 7 =$
12. $3 \times 7 + 3 \times 7 + 4 \times 7 =$
13. $2 \times 7 + 1 \times 7 + 4 \times 7 =$
14. $1 \times 7 + 1 \times 7 + 2 \times 7 =$
15. $3 \times 7 + 2 \times 7 + 1 \times 7 =$
16. $1 \times 7 + 3 \times 7 + 1 \times 7 =$
17. $5 \times 6 + 2 \times 6 + 1 \times 6 =$
18. $3 \times 6 + 3 \times 6 + 3 \times 6 =$
19. $2 \times 6 + 1 \times 6 + 3 \times 6 =$
20. $5 \times 6 + 4 \times 6 + 1 \times 6 =$
21. $3 \times 6 + 2 \times 6 + 2 \times 6 =$
22. $2 \times 5 + 1 \times 5 + 1 \times 5 =$
23. $3 \times 5 + 4 \times 5 + 2 \times 5 =$
24. $4 \times 5 + 1 \times 5 + 3 \times 5 =$
25. $3 \times 5 + 4 \times 5 + 3 \times 5 =$
26. $2 \times 5 + 2 \times 5 + 3 \times 5 =$
27. $1 \times 5 + 1 \times 5 + 1 \times 5 =$
28. $4 \times 4 + 1 \times 4 + 1 \times 4 =$
29. $3 \times 4 + 3 \times 4 + 2 \times 4 =$
30. $2 \times 4 + 4 \times 4 + 3 \times 4 =$
31. $3 \times 4 + 1 \times 4 + 2 \times 4 =$
32. $3 \times 3 + 3 \times 3 + 1 \times 3 =$
33. $1 \times 3 + 1 \times 3 + 6 \times 3 =$
34. $2 \times 3 + 4 \times 3 + 3 \times 3 =$
35. $2 \times 2 + 2 \times 2 + 4 \times 2 =$
36. $2 \times 2 + 5 \times 2 + 2 \times 2 =$
37. $3 \times 2 + 3 \times 2 + 1 \times 2 =$

- | | |
|---------------|----------------|
| 38. CCXIV= | 45. CLXIII= |
| 39. CCXVI= | 46. CLXXXVI= |
| 40. CIX= | 47. CCLXXVIII= |
| 41. CXXV= | 48. CCIII= |
| 42. CCLV= | 49. CCCXC= |
| 43. CXXXVII= | 50. CCXCIX= |
| 44. CCXLVIII= | |

LESSON XIV.

1. George earned 10 cts. and spent 4 cts. for a pencil; how many cents had he left?—*Ans.* He had 6 cents left.

2. How many dollars will 8 sheep cost at \$7 a head?—*Ans.* 8 sheep will cost $8 \times \$7$ which are \$56.

3. How many dollars will six sheep cost at \$7 a head?

4. A drover bought 13 cows and sold 9 of them; how many cows had he left?

5. There are 7 days in one week; how many days in 7 weeks?

6. How many quarts in 7 gallons?

7. How many quarts in 9 gallons?

8. Mary is 6 years old, and her father is 7 times as old as she; how old is her father?

9. How many feet in twelve yards?

10. How much will 4 lemons cost at 4 cts. each?

- | | |
|---------------|-----------------|
| 11. CCXVII= | 21. 143=CXLIII. |
| 12. CXCIV= | 22. 226= |
| 13. CCLXXXVI= | 23. 118= |
| 14. LXIII= | 24. 139= |
| 15. LXXVIII= | 25. 211= |
| 16. CCXIX= | 26. 301= |
| 17. CIII= | 27. 110= |
| 18. CXLII= | 28. 175= |
| 19. CVIII= | 29. 382= |
| 20. CLXVII= | 30. 193= |

LESSON XV.

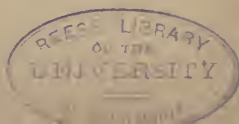
1. $18 \times 1 + 10 \times 1 = 28 \times 1$.
2. $25 \times 1 + 9 \times 1 =$
3. $16 \times 1 + 11 \times 1 =$
4. $17 \times 1 + 12 \times 1 =$
5. $15 \times 1 + 15 \times 1 =$
6. $16 \times 1 + 16 \times 1 =$
7. $17 \times 1 + 17 \times 1 =$
8. $14 \times 1 + 14 \times 1 =$
9. $13 \times 1 + 13 \times 1 =$
10. $12 \times 1 + 13 \times 1 =$
11. $18 \times 1 + 18 \times 1 =$
12. $20 \times 1 + 16 \times 1 =$
13. $19 \times 1 + 19 \times 1 =$
14. $23 \times 1 + 12 \times 1 =$
15. $16 \times 1 + 15 \times 1 =$

16. $21 \times 1 + 10 \times 1 =$
17. $19 \times 1 + 12 \times 1 =$
18. $22 \times 1 + 15 \times 1 =$
19. $16 \times 1 + 18 \times 1 =$
20. $25 \times 1 + 20 \times 1 =$
21. $6 \times 7 + 3 \times 7 + 2 \times 7 = 11 \times 7 = 77 \times 1.$
22. $5 \times 7 + 3 \times 7 + 2 \times 7 =$
23. $1 \times 7 + 5 \times 7 + 1 \times 7 =$
24. $2 \times 7 + 1 \times 7 + 3 \times 7 =$
25. $3 \times 7 + 3 \times 7 + 2 \times 7 =$
26. $1 \times 7 + 2 \times 7 + 4 \times 7 =$
27. $3 \times 7 + 2 \times 7 + 2 \times 7 =$
28. $1 \times 7 + 1 \times 7 + 2 \times 7 =$
29. $3 \times 6 + 1 \times 6 + 1 \times 6 =$
30. $2 \times 6 + 2 \times 6 + 5 \times 6 =$
31. $1 \times 6 + 1 \times 6 + 2 \times 6 =$
32. $3 \times 6 + 4 \times 6 + 1 \times 6 =$
33. $1 \times 6 + 1 \times 6 + 4 \times 6 =$
34. $3 \times 6 + 2 \times 6 + 5 \times 6 =$
35. $2 \times 6 + 3 \times 6 + 2 \times 6 =$
36. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
37. $3 \times 5 + 2 \times 5 + 4 \times 5 =$
38. $2 \times 5 + 2 \times 5 + 3 \times 5 =$
39. $1 \times 5 + 1 \times 5 + 2 \times 5 =$
40. $4 \times 5 + 3 \times 5 + 1 \times 5 =$
41. $1 \times 5 + 1 \times 5 + 1 \times 5 =$
42. $3 \times 5 + 1 \times 5 + 1 \times 5 =$

43. $2 \times 5 + 3 \times 5 + 1 \times 5 =$
44. $3 \times 4 + 3 \times 4 + 3 \times 4 =$
45. $2 \times 4 + 3 \times 4 + 2 \times 4 =$
46. $3 \times 4 + 2 \times 4 + 3 \times 4 =$
47. $2 \times 3 + 3 \times 3 + 3 \times 3 =$
48. $3 \times 3 + 4 \times 3 + 3 \times 3 =$
49. $2 \times 3 + 4 \times 3 + 3 \times 3 =$
50. $1 \times 2 + 2 \times 2 + 3 \times 2 =$

LESSON XVI.

1. $2 \times 8 + 3 \times 8 + 1 \times 8 = 6 \times 8 = 48 \times 1.$
2. $3 \times 8 + 2 \times 8 + 3 \times 8 =$
3. $2 \times 8 + 2 \times 8 + 5 \times 8 =$
4. $1 \times 8 + 1 \times 8 + 1 \times 8 =$
5. $3 \times 8 + 2 \times 8 + 2 \times 8 =$
6. $2 \times 8 + 2 \times 8 + 2 \times 8 =$
7. $1 \times 8 + 1 \times 8 + 3 \times 8 =$
8. $1 \times 8 + 2 \times 8 + 1 \times 8 =$
9. $2 \times 7 + 2 \times 7 + 3 \times 7 =$
10. $1 \times 7 + 3 \times 7 + 2 \times 7 =$
11. $3 \times 7 + 3 \times 7 + 2 \times 7 =$
12. $2 \times 7 + 1 \times 7 + 1 \times 7 =$
13. $3 \times 7 + 4 \times 7 + 3 \times 7 =$
14. $2 \times 7 + 3 \times 7 + 4 \times 7 =$
15. $2 \times 6 + 2 \times 6 + 4 \times 6 =$
16. $3 \times 6 + 1 \times 6 + 5 \times 6 =$
17. $3 \times 6 + 2 \times 6 + 2 \times 6 =$



18. $1 \times 6 + 3 \times 6 + 2 \times 6 =$
19. $1 \times 6 + 1 \times 6 + 3 \times 6 =$
20. $5 \times 5 + 2 \times 5 + 2 \times 5 =$
21. $2 \times 5 + 2 \times 5 + 3 \times 5 =$
22. $1 \times 5 + 3 \times 5 + 4 \times 5 =$
23. $2 \times 5 + 1 \times 5 + 3 \times 5 =$
24. $1 \times 5 + 1 \times 5 + 5 \times 5 =$
25. $3 \times 4 + 3 \times 4 + 3 \times 4 =$
26. $1 \times 4 + 1 \times 4 + 2 \times 4 =$
27. $3 \times 4 + 3 \times 4 + 2 \times 4 =$
28. $2 \times 4 + 3 \times 4 + 2 \times 4 =$
29. $6 \times 1 + 7 \times 1 + 5 \times 1 + 3 \times 1 + 7 \times 1 =$
30. $9 \times 1 + 9 \times 1 + 9 \times 1 + 7 \times 1 + 5 \times 1 =$
31. $11 \times 1 + 11 \times 1 + 11 \times 1 + 9 \times 1 + 6 \times 1 =$
32. $12 \times 1 + 9 \times 1 + 3 \times 1 + 7 \times 1 + 7 \times 1 =$
33. $10 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 =$
34. $9 \times 1 + 7 \times 1 + 10 \times 1 + 9 \times 1 + 11 \times 1 =$
35. $8 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 + 9 \times 1 =$
36. $7 \times 1 + 9 \times 1 + 5 \times 1 + 8 \times 1 + 11 \times 1 =$
37. $12 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 =$
38. $11 \times 1 + 7 \times 1 + 8 \times 1 + 5 \times 1 + 9 \times 1 =$
39. $10 \times 1 + 10 \times 1 + 10 \times 1 + 10 \times 1 + 10 \times 1 =$
40. $8 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 7 \times 1 =$
41. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
42. $6 \times 1 + 5 \times 1 + 8 \times 1 + 4 \times 1 + 5 \times 1 =$
43. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 =$
44. $101 = \text{CI.}$
45. $253 =$

46. 328=

49. 190=

47. 147=

50. 119=

48. 239=

LESSON XVII.

(1)	(2)	(3)	(4)	(5)
6	3	9	7	8
5	7	3	5	3
3	4	8	5	9
8	6	6	5	4
4	5	4	5	6
—	—	—	—	—
26				
(6)	(7)	(8)	(9)	(10)
7	9	3	2	7
7	3	4	4	5
4	4	5	6	7
9	8	6	8	4
6	2	7	9	6
—	—	—	—	—
(11)	(12)	(13)	(14)	(15)
6	2	7	7	9
7	9	6	6	3
3	5	4	7	8
8	4	7	5	2
2	8	3	2	5
—	—	—	—	—

(16)	(17)	(18)	(19)	(20)
7	9	8	9	7
6	8	3	5	5
7	7	7	8	4
4	6	9	2	7
3	4	6	6	3
—	—	—	—	—

21. $4 \times 7 + 3 \times 3 = 37 \times 1$ (or 37).

22. $5 \times 6 + 2 \times 5 =$

23. $7 \times 7 + 4 \times 2 =$

24. $9 \times 7 + 3 \times 5 =$

25. $4 \times 8 + 7 \times 2 =$

26. $9 \times 6 + 3 \times 4 =$

27. $5 \times 5 + 2 \times 3 =$

28. $8 \times 8 + 4 \times 4 =$

29. $9 \times 5 + 7 \times 2 =$

30. $6 \times 8 + 3 \times 3 =$

31. $9 \times 7 + 2 \times 8 =$

32. $6 \times 6 + 5 \times 3 =$

33. $7 \times 10 + 3 \times 4 =$

34. $5 \times 9 + 4 \times 5 =$

35. $8 \times 7 + 3 \times 6 =$

36. $7 \times 9 + 4 \times 2 =$

37. $6 \times 7 + 3 \times 5 =$

38. $1 \times 8 + 3 \times 8 + 2 \times 8 =$

39. $3 \times 8 + 2 \times 8 + 4 \times 8 =$

40. $2 \times 8 + 1 \times 8 + 1 \times 8 =$

41. $3 \times 8 + 4 \times 8 + 1 \times 8 =$

42. $2 \times 8 + 2 \times 8 + 3 \times 8 =$

43. $1 \times 8 + 1 \times 8 + 3 \times 8 =$

44. $3 \times 7 + 3 \times 7 + 3 \times 7 =$

45. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

46. $1 \times 7 + 2 \times 7 + 5 \times 7 =$

47. $2 \times 7 + 2 \times 7 + 3 \times 7 =$

48. $2 \times 7 + 1 \times 7 + 2 \times 7 =$

49. $3 \times 7 + 1 \times 7 + 2 \times 7 =$

50. $1 \times 7 + 1 \times 7 + 1 \times 7 =$

LESSON XVIII.

1. How many beets in 7 bunches, if there are 6 beets in each bunch? *Ans.*—There are 7×6 beets, which are 42 beets.

2. At 4 cts. each, what will 9 oranges cost?

3. There are 4 pecks in a bushel; how many pecks in 6 bushels?

4. How many pecks in 12 bushels?

5. How many pints in 7 quarts?

6. How many feet in 6 yards?

7. How many quarts in 9 gallons?

8. James paid 15 cts. for a slate, and 47 cts. for a book; how much did he pay for both?

9. How many shoes does it take to shoe 4 horses?

10. A beetle has 6 legs; how many legs have 5 beetles?

- | | |
|---|----------------------------------|
| 11. $7 \times 7 + 3 \times 3 = 58 \times 1$ | 19. $10 \times 6 + 3 \times 8 =$ |
| 12. $6 \times 8 + 4 \times 5 =$ | 20. $6 \times 7 + 5 \times 4 =$ |
| 13. $7 \times 5 + 3 \times 6 =$ | 21. $8 \times 6 + 5 \times 3 =$ |
| 14. $6 \times 9 + 5 \times 3 =$ | 22. $7 \times 11 + 4 \times 3 =$ |
| 15. $8 \times 5 + 3 \times 7 =$ | 23. $8 \times 3 + 7 \times 5 =$ |
| 16. $5 \times 9 + 4 \times 6 =$ | 24. $4 \times 8 + 6 \times 2 =$ |
| 17. $7 \times 3 + 3 \times 7 =$ | 25. $9 \times 5 + 5 \times 9 =$ |
| 18. $9 \times 2 + 8 \times 7 =$ | |

LESSON XIX.

- $1 \times 9 + 2 \times 9 + 3 \times 9 = 6 \times 9 = 54 \times 1$ (or 54).
- $2 \times 9 + 3 \times 9 + 4 \times 9 =$
- $1 \times 9 + 1 \times 9 + 1 \times 9 =$
- $3 \times 9 + 4 \times 9 + 1 \times 9 =$
- $1 \times 9 + 3 \times 9 + 1 \times 9 =$
- $3 \times 9 + 1 \times 9 + 3 \times 9 =$
- $1 \times 9 + 1 \times 9 + 4 \times 9 =$
- $2 \times 9 + 1 \times 9 + 1 \times 9 =$
- $1 \times 8 + 3 \times 8 + 1 \times 8 =$
- $1 \times 8 + 2 \times 8 + 4 \times 8 =$
- $2 \times 8 + 2 \times 8 + 4 \times 8 =$
- $1 \times 8 + 1 \times 8 + 4 \times 8 =$
- $2 \times 8 + 1 \times 8 + 7 \times 8 =$
- $1 \times 8 + 1 \times 8 + 7 \times 8 =$
- $1 \times 8 + 1 \times 8 + 1 \times 8 =$
- $2 \times 8 + 1 \times 8 + 1 \times 8 =$
- $1 \times 7 + 1 \times 7 + 1 \times 7 =$
- $2 \times 7 + 2 \times 7 + 2 \times 7 =$

19. $3 \times 7 + 3 \times 7 + 3 \times 7 =$
20. $4 \times 7 + 4 \times 7 + 2 \times 7 =$
21. $1 \times 7 + 3 \times 7 + 1 \times 7 =$
22. $2 \times 7 + 1 \times 7 + 1 \times 7 =$
23. $1 \times 7 + 1 \times 7 + 5 \times 7 =$
24. $2 \times 7 + 3 \times 7 + 3 \times 7 =$
25. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
26. $2 \times 6 + 1 \times 6 + 1 \times 6 =$
27. $3 \times 6 + 4 \times 6 + 2 \times 6 =$
28. $2 \times 6 + 2 \times 6 + 3 \times 6 =$
29. $1 \times 6 + 1 \times 6 + 6 \times 6 =$
30. $3 \times 5 + 2 \times 5 + 2 \times 5 =$
31. $2 \times 5 + 4 \times 5 + 2 \times 5 =$
32. $1 \times 5 + 1 \times 5 + 6 \times 5 =$
33. $2 \times 5 + 1 \times 5 + 1 \times 5 =$
34. $3 \times 4 + 3 \times 4 + 1 \times 4 =$
35. $2 \times 4 + 1 \times 4 + 5 \times 4 =$
36. $2 \times 4 + 3 \times 4 + 5 \times 4 =$
37. $1 \times 4 + 5 \times 4 + 3 \times 4 =$
38. $2 \times 3 + 3 \times 3 + 2 \times 3 =$
39. $1 \times 3 + 1 \times 3 + 7 \times 3 =$
40. $1 \times 3 + 1 \times 3 + 6 \times 3 =$
41. $1 \times 3 + 3 \times 3 + 2 \times 3 =$
42. $3 \times 9 + 4 \times 5 = 47 \times 1.$ 47. $7 \times 7 + 3 \times 3 =$
43. $7 \times 6 + 3 \times 3 =$ 48. $8 \times 5 + 5 \times 3 =$
44. $9 \times 7 + 4 \times 2 =$ 49. $8 \times 4 + 3 \times 3 =$
45. $9 \times 9 + 7 \times 2 =$ 50. $9 \times 7 + 2 \times 5 =$
46. $6 \times 6 + 4 \times 5 =$

LESSON XX.

1. $3 \times 9 + 3 \times 9 + 3 \times 9 = 9 \times 9 = 81 \times 1.$

2. $2 \times 9 + 2 \times 9 + 1 \times 9 =$

3. $1 \times 9 + 3 \times 9 + 2 \times 9 =$

4. $3 \times 9 + 2 \times 9 + 3 \times 9 =$

5. $3 \times 9 + 3 \times 9 + 4 \times 9 =$

6. $1 \times 9 + 1 \times 9 + 1 \times 9 =$

7. $2 \times 9 + 4 \times 9 + 1 \times 9 =$

8. $1 \times 9 + 1 \times 9 + 4 \times 9 =$

9. $3 \times 8 + 2 \times 8 + 2 \times 8 =$

10. $3 \times 8 + 4 \times 8 + 3 \times 8 =$

11. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

12. $2 \times 8 + 3 \times 8 + 4 \times 8 =$

13. $1 \times 8 + 2 \times 8 + 1 \times 8 =$

14. $1 \times 8 + 3 \times 8 + 4 \times 8 =$

15. $2 \times 8 + 1 \times 8 + 2 \times 8 =$

16. $1 \times 8 + 1 \times 8 + 4 \times 8 =$

17. $2 \times 7 + 3 \times 7 + 3 \times 7 =$

18. $3 \times 7 + 5 \times 7 + 2 \times 7 =$

19. $1 \times 8 + 1 \times 8 + 7 \times 8 =$

20. $1 \times 7 + 1 \times 7 + 1 \times 7 =$

21. $3 \times 7 + 1 \times 7 + 5 \times 7 =$

22. $2 \times 7 + 2 \times 7 + 4 \times 7 =$

23. $1 \times 7 + 3 \times 7 + 3 \times 7 =$

24. $2 \times 7 + 1 \times 7 + 2 \times 7 =$

25. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

26. $2 \times 6 + 3 \times 6 + 3 \times 6 =$

27. $3 \times 6 + 2 \times 6 + 4 \times 6 =$
28. $1 \times 6 + 2 \times 6 + 2 \times 6 =$
29. $13 \times 1 + 12 \times 1 + 5 \times 1 + 4 \times 1 + 7 \times 1 =$
30. $10 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 + 5 \times 1 =$
31. $4 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
32. $9 \times 1 + 10 \times 1 + 9 \times 1 + 6 \times 1 + 10 \times 1 =$
33. $8 \times 1 + 11 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 =$
34. $9 \times 1 + 5 \times 1 + 4 \times 1 + 7 \times 1 + 3 \times 1 =$
35. $7 \times 1 + 6 \times 1 + 8 \times 1 + 10 \times 1 + 7 \times 1 =$
36. $9 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
37. $10 \times 1 + 10 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 =$
38. $8 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 10 \times 1 =$
39. $12 \times 1 + 12 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 =$
40. $9 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 + 7 \times 1 =$
41. $11 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 6 \times 1 =$
42. $9 \times 1 + 8 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 =$
43. $6 \times 7 + 3 \times 3 = 51 \times 1.$
44. $9 \times 5 + 4 \times 2 =$
45. $7 \times 8 + 4 \times 4 =$
46. $6 \times 7 + 5 \times 4 =$
47. $8 \times 10 + 3 \times 4 =$
48. $7 \times 5 + 3 \times 2 =$
49. $9 \times 6 + 6 \times 2 =$
50. $7 \times 7 + 4 \times 5 =$

LESSON XXI.

1. $4 \times 10 + 5 \times 10 + 3 \times 10 = 12 \times 10 = 120 \times 1$ (or 120).

2. $3 \times 10 + 2 \times 10 + 5 \times 10 =$
3. $6 \times 10 + 1 \times 10 + 4 \times 10 =$
4. $2 \times 10 + 3 \times 10 + 3 \times 10 =$
5. $3 \times 10 + 1 \times 10 + 2 \times 10 =$
6. $5 \times 10 + 2 \times 10 + 2 \times 10 =$
7. $2 \times 10 + 2 \times 10 + 3 \times 10 =$
8. $3 \times 9 + 1 \times 9 + 1 \times 9 =$
9. $2 \times 9 + 1 \times 9 + 4 \times 9 =$
10. $3 \times 9 + 2 \times 9 + 4 \times 9 =$
11. $2 \times 9 + 3 \times 9 + 6 \times 9 =$
12. $3 \times 9 + 6 \times 9 + 3 \times 9 =$
13. $2 \times 9 + 3 \times 9 + 5 \times 9 =$
14. $3 \times 9 + 3 \times 9 + 2 \times 9 =$
15. $4 \times 9 + 1 \times 9 + 1 \times 9 =$
16. $2 \times 9 + 1 \times 9 + 1 \times 9 =$
17. $4 \times 8 + 4 \times 8 + 4 \times 8 =$
18. $3 \times 8 + 3 \times 8 + 3 \times 8 =$
19. $2 \times 8 + 2 \times 8 + 2 \times 8 =$
20. $3 \times 8 + 3 \times 8 + 2 \times 8 =$
21. $2 \times 8 + 2 \times 8 + 1 \times 8 =$
22. CCCIII =
23. CCXXXVI =
24. CLXXXIV =
25. CCCVII =
26. CCCI =
27. CCXXI =
28. CXCVIII =
29. CXLIX =
30. CCCXVII =
31. 104 = CIV.
32. 202 =
33. 222 =
34. 305 =
35. 313 =

36. $156 =$

39. $260 =$

37. $276 =$

40. $333 =$

38. $318 =$

$5 \times 8 =$

$12 \times 8 =$

$11 \times 9 =$

$3 \times 9 =$

$11 \times 8 =$

$7 \times 9 =$

$8 \times 8 =$

$4 \times 8 =$

$12 \times 9 =$

$7 \times 8 =$

$9 \times 8 =$

$6 \times 9 =$

$3 \times 8 =$

$5 \times 8 =$

$5 \times 9 =$

$6 \times 8 =$

$9 \times 9 =$

$10 \times 9 =$

$8 \times 9 =$

$4 \times 9 =$

LESSON XXII.

1. How many days in 12 weeks? *Ans.*—
There are 12×7 days, which are 84 days.

2. How many weeks in 56 days?

3. " " " " 35 " ?

4. " " " " 84 " ?

5. " " pecks " 5 bushels?

6. " " " " 9 " ?

7. " " quarts " 18 pints? *Ans.*—

There are 9 quarts in 18 pints.

8. How many pints in 9 quarts?

9. " " dimes " 90 cents?

10. " " cents " 10 dimes?

11. $9 \times 5 + 4 \times 4 = 61 \times 1.$

12. $8 \times 3 + 3 \times 8 =$

13. $7 \times 6 + 5 \times 5 =$

14. $4 \times 11 + 6 \times 7 =$

15. $3 \times 9 + 9 \times 4 =$

16. $7 \times 8 + 6 \times 6 =$

17. $9 \times 7 + 3 \times 4 =$

18. $7 \times 6 + 3 \times 8 =$

19. $9 \times 9 + 3 \times 3 =$

20. $5 \times 6 + 7 \times 5 =$

21. $3 \times 7 + 8 \times 5 =$

22. $4 \times 4 + 7 \times 7 =$

23. $3 \times 11 + 5 \times 6 =$

24. $6 \times 6 + 3 \times 5 =$

25. $5 \times 5 + 6 \times 4 =$

26. $2 \times 11 + 5 \times 7 =$

27. $3 \times 5 + 6 \times 8 =$

28. $4 \times 2 + 9 \times 6 =$

29. $3 \times 12 + 2 \times 11 =$

30. $5 \times 4 + 8 \times 7 =$

31. $6 \times 3 + 9 \times 7 =$

32. $2 \times 9 + 5 \times 8 =$

33. $3 \times 6 + 8 \times 8 =$

34. $4 \times 2 + 9 \times 11 =$

35. $3 \times 7 + 6 \times 9 =$

LESSON XXIII.

1. $12 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 =$
 48×1 (or 48).

2. $11 \times 1 + 11 \times 1 + 7 \times 1 + 5 \times 1 + 6 \times 1 + 6 \times 1 =$

3. $9 \times 1 + 9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$
4. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
5. $8 \times 1 + 8 \times 1 + 6 \times 1 + 6 \times 1 + 8 \times 1 + 8 \times 1 =$
6. $11 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 7 \times 1 =$
7. $9 \times 1 + 9 \times 1 + 11 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$
8. $6 \times 1 + 12 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
9. $9 \times 1 + 11 \times 1 + 11 \times 1 + 9 \times 1 + 11 \times 1 + 9 \times 1 =$
10. $8 \times 1 + 7 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 =$
11. $12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$
12. $11 \times 1 + 8 \times 1 + 9 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 =$
13. $9 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 7 \times 1 + 10 \times 1 =$
14. $5 \times 1 + 11 \times 1 + 12 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
15. $12 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 11 \times 1 + 9 \times 1 =$
16. $2 \times 11 + 2 \times 11 + 1 \times 11 = 5 \times 11 = 55 \times 1.$
17. $1 \times 11 + 1 \times 11 + 1 \times 11 =$
18. $3 \times 11 + 3 \times 11 + 2 \times 11 =$
19. $1 \times 11 + 2 \times 11 + 1 \times 11 =$
20. $5 \times 11 + 4 \times 11 + 2 \times 11 =$
21. $1 \times 11 + 1 \times 11 + 10 \times 11 =$
22. $1 \times 11 + 2 \times 11 + 3 \times 11 =$
23. $2 \times 11 + 3 \times 11 + 6 \times 11 =$
24. $2 \times 11 + 2 \times 11 + 5 \times 11 =$
25. $2 \times 11 + 1 \times 11 + 4 \times 11 =$
26. $3 \times 9 + 3 \times 9 + 2 \times 9 =$
27. $1 \times 9 + 5 \times 9 + 6 \times 9 =$
28. $2 \times 9 + 2 \times 9 + 3 \times 9 =$
29. $3 \times 9 + 1 \times 9 + 3 \times 9 =$

30. $1 \times 9 + 9 \times 9 + 1 \times 9 =$

31. $2 \times 9 + 5 \times 9 + 2 \times 9 =$

32. $1 \times 9 + 3 \times 9 + 1 \times 9 =$

33. $2 \times 9 + 1 \times 9 + 1 \times 9 =$

34. $3 \times 9 + 1 \times 9 + 2 \times 9 =$

35. $4 \times 9 + 2 \times 9 + 5 \times 9 =$

LESSON XXIV.

1. $2 \times 12 + 1 \times 12 + 2 \times 12 = 5 \times 12 = 60 \times 1.$

2. $1 \times 12 + 1 \times 12 + 1 \times 12 =$

3. $3 \times 12 + 1 \times 12 + 2 \times 12 =$

4. $2 \times 12 + 1 \times 12 + 1 \times 12 =$

5. $2 \times 12 + 3 \times 12 + 2 \times 12 =$

6. $3 \times 12 + 3 \times 12 + 4 \times 12 =$

7. $2 \times 12 + 1 \times 12 + 5 \times 12 =$

8. $2 \times 12 + 5 \times 12 + 5 \times 12 =$

9. $2 \times 12 + 2 \times 12 + 5 \times 12 =$

10. $1 \times 12 + 3 \times 12 + 7 \times 12 =$

11. $4 \times 10 + 5 \times 10 + 2 \times 10 =$

12. $3 \times 10 + 3 \times 10 + 6 \times 10 =$

13. $2 \times 11 + 5 \times 11 + 2 \times 11 =$

14. $3 \times 11 + 4 \times 11 + 3 \times 11 =$

15. $5 \times 11 + 5 \times 11 + 2 \times 11 =$

16. $3 \times 11 + 3 \times 11 + 2 \times 11 =$

17. $4 \times 11 + 5 \times 11 + 2 \times 11 =$

18. $3 \times 9 + 3 \times 9 + 2 \times 9 =$

19. $5 \times 9 + 1 \times 9 + 2 \times 9 =$

20. $3 \times 9 + 3 \times 9 + 6 \times 9 =$
21. $2 \times 9 + 2 \times 9 + 5 \times 9 =$
22. $2 \times 9 + 1 \times 9 + 4 \times 9 =$
23. $1 \times 9 + 1 \times 9 + 4 \times 9 =$
24. $1 \times 9 + 2 \times 9 + 6 \times 9 =$
25. $10 \times 1 - 6 \times 1 = 4 \times 1.$ 36. $9 \times 1 - 7 \times 1 =$
26. $10 \times 1 - 8 \times 1 =$ 37. $9 \times 1 - 2 \times 1 =$
27. $10 \times 1 - 4 \times 1 =$ 38. $9 \times 1 - 4 \times 1 =$
28. $10 \times 1 - 2 \times 1 =$ 39. $9 \times 1 - 5 \times 1 =$
29. $10 \times 1 - 7 \times 1 =$ 40. $9 \times 1 - 3 \times 1 =$
30. $10 \times 1 - 3 \times 1 =$ 41. $9 \times 1 - 6 \times 1 =$
31. $10 \times 1 - 9 \times 1 =$ 42. $8 \times 1 - 6 \times 1 =$
32. $10 \times 1 - 1 \times 1 =$ 43. $8 \times 1 - 5 \times 1 =$
33. $10 \times 1 - 5 \times 1 =$ 44. $8 \times 1 - 2 \times 1 =$
34. $9 \times 1 - 8 \times 1 =$ 45. $8 \times 1 - 6 \times 1 =$
35. $9 \times 1 - 1 \times 1 =$

LESSON XXV.

1. $6 \times 7 + 7 \times 6 = 84 \times 1$ (or 84).
2. $5 \times 8 + 4 \times 11 =$ 10. $3 \times 5 + 8 \times 7 =$
3. $7 \times 6 + 6 \times 5 =$ 11. $2 \times 6 + 9 \times 9 =$
4. $9 \times 8 + 8 \times 3 =$ 12. $3 \times 7 + 6 \times 8 =$
5. $7 \times 6 + 5 \times 11 =$ 13. $5 \times 4 + 8 \times 7 =$
6. $4 \times 8 + 3 \times 7 =$ 14. $3 \times 6 + 6 \times 9 =$
7. $2 \times 11 + 7 \times 6 =$ 15. $5 \times 5 + 8 \times 8 =$
8. $3 \times 5 + 4 \times 12 =$ 16. $4 \times 11 + 11 \times 5 =$
9. $4 \times 4 + 6 \times 7 =$ 17. $3 \times 10 + 7 \times 7 =$

18. $4 \times 5 + 9 \times 6 =$

19. $3 \times 11 + 8 \times 4 =$

20. $7 \times 6 + 6 \times 3 =$

21. $8 \times 11 + 5 \times 4 =$

22. $7 \times 9 + 6 \times 2 =$

23. $8 \times 6 + 6 \times 5 =$

24. $7 \times 9 + 5 \times 3 =$

(25)

$$\begin{array}{r} 8 \\ 11 \\ 6 \\ 7 \\ 5 \\ 9 \\ \hline \end{array}$$

46

(26)

$$\begin{array}{r} 9 \\ 7 \\ 6 \\ 8 \\ 9 \\ 5 \\ \hline \end{array}$$

(27)

$$\begin{array}{r} 11 \\ 7 \\ 6 \\ 9 \\ 5 \\ 11 \\ \hline \end{array}$$

(28)

$$\begin{array}{r} 9 \\ 9 \\ 5 \\ 8 \\ 7 \\ 6 \\ \hline \end{array}$$

(29)

$$\begin{array}{r} 12 \\ 9 \\ 11 \\ 9 \\ 8 \\ 7 \\ \hline \end{array}$$

(30)

$$\begin{array}{r} 9 \\ 8 \\ 9 \\ 12 \\ 11 \\ 8 \\ \hline \end{array}$$

(31)

$$\begin{array}{r} 12 \\ 11 \\ 10 \\ 9 \\ 8 \\ 7 \\ \hline \end{array}$$

(32)

$$\begin{array}{r} 9 \\ 9 \\ 8 \\ 11 \\ 9 \\ 6 \\ \hline \end{array}$$

(33)

$$\begin{array}{r} 13 \\ 9 \\ 5 \\ 8 \\ 9 \\ 7 \\ \hline \end{array}$$

(34)

$$\begin{array}{r} 9 \\ 6 \\ 7 \\ 8 \\ 11 \\ 12 \\ \hline \end{array}$$

(35)

$$\begin{array}{r} 13 \\ 12 \\ 11 \\ 10 \\ 9 \\ 8 \\ \hline \end{array}$$

LESSON XXVI.

1. How many quarters in 2 dollars? *Ans.*—

There are 2×4 quarters which are 8 quarters.

2. How many dimes in 2 dollars?

3. " " cents " 2 " ?

4. " " quarters " 12 " ?

5. " " " " 9 " ?

6. " " dollars " 30 dimes? *Ans.*—

There are 3 dollars in 30 dimes.

7. How many dollars in 60 dimes?

8. " " cents " 12 " ?

9. " " " " 11 " ?

10. " " " " 9 " ?

11. " " dimes " 80 cents?

12. " " " " 100 " ?

13. " " " " 110 " ?

14. " " " " 70 " ?

15. " " nickels " 25 " ?

16. " " cents " 7 nickels?

17. " " " " 9 " ?

18. " " " " 11 " ?

19. " " " " 12 " ?

20. " " " " 8 " ?

21. $7 \times 11 + 6 \times 6 = 113 \times 1.$

22. $6 \times 5 + 8 \times 4 =$

23. $7 \times 5 + 9 \times 3 =$

24. $8 \times 8 + 3 \times 6 =$

25. $9 \times 11 + 5 \times 3 =$

LESSON XXVII.

1. $3 \times 12 + 4 \times 12 + 3 \times 12 = 10 \times 12 = 120 \times 1.$
2. $2 \times 12 + 5 \times 12 + 5 \times 12 =$
3. $1 \times 12 + 4 \times 12 + 3 \times 12 =$
4. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
5. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
6. $3 \times 12 + 1 \times 12 + 1 \times 12 =$
7. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
8. $2 \times 12 + 3 \times 12 + 2 \times 12 =$
9. $3 \times 12 + 3 \times 12 + 3 \times 12 =$
10. $2 \times 12 + 2 \times 12 + 7 \times 12 =$
11. $1 \times 11 + 1 \times 11 + 1 \times 11 =$
12. $2 \times 11 + 2 \times 11 + 2 \times 11 =$
13. $3 \times 11 + 3 \times 11 + 3 \times 11 =$
14. $4 \times 11 + 4 \times 11 + 4 \times 11 =$
15. $2 \times 11 + 1 \times 11 + 2 \times 11 =$
16. $1 \times 11 + 1 \times 11 + 5 \times 11 =$
17. $1 \times 11 + 1 \times 11 + 7 \times 11 =$
18. $1 \times 11 + 1 \times 11 + 9 \times 11 =$
19. $2 \times 11 + 2 \times 11 + 1 \times 11 =$
20. $2 \times 11 + 2 \times 11 + 4 \times 11 =$
21. $5 \times 10 + 5 \times 10 + 2 \times 10 =$
22. $3 \times 10 + 2 \times 10 + 1 \times 10 =$
23. $2 \times 10 + 4 \times 10 + 6 \times 10 =$
24. $3 \times 10 + 2 \times 10 + 2 \times 10 =$
25. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
26. $2 \times 9 + 2 \times 9 + 2 \times 9 =$

27. $3 \times 9 + 3 \times 9 + 3 \times 9 =$

28. $4 \times 9 + 4 \times 9 + 4 \times 9 =$

29. $2 \times 9 + 1 \times 9 + 2 \times 9 =$

30. $3 \times 9 + 3 \times 9 + 2 \times 9 =$

31. $4 \times 9 + 4 \times 9 + 3 \times 9 =$

32. $2 \times 9 + 1 \times 9 + 1 \times 9 =$

33. $3 \times 9 + 3 \times 9 + 1 \times 9 =$

34. $4 \times 9 + 4 \times 9 + 2 \times 9 =$

35. $3 \times 8 + 1 \times 8 + 1 \times 8 =$

36. $1 \times 8 + 2 \times 8 + 3 \times 8 =$

37. $2 \times 8 + 3 \times 8 + 4 \times 8 =$

38. $3 \times 8 + 4 \times 8 + 5 \times 8 =$

39. $2 \times 8 + 1 \times 8 + 4 \times 8 =$

40. $1 \times 8 + 3 \times 8 + 7 \times 8 =$

41. $2 \times 8 + 4 \times 8 + 3 \times 8 =$

42. $3 \times 7 + 2 \times 7 + 4 \times 7 =$

43. $2 \times 7 + 3 \times 7 + 7 \times 7 =$

44. $1 \times 7 + 2 \times 7 + 8 \times 7 =$

45. $2 \times 7 + 3 \times 7 + 3 \times 7 =$

46. $2 \times 6 + 4 \times 6 + 4 \times 6 =$

47. $3 \times 6 + 2 \times 6 + 7 \times 6 =$

48. $1 \times 6 + 3 \times 6 + 5 \times 6 =$

LESSON XXVIII.

1. $12 \times 1 + 11 \times 1 + 9 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$
 $56 \times 1.$

2. $11 \times 1 + 11 \times 1 + 11 \times 1 + 9 \times 1 + 8 \times 1 + 9 \times 1 =$

3. $9 \times 1 + 8 \times 1 + 8 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 =$
4. $12 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 11 \times 1 + 10 \times 1 =$
5. $8 \times 1 + 7 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 9 \times 1 =$
6. $11 \times 1 + 11 \times 1 + 12 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 =$
7. $6 \times 1 + 7 \times 1 + 8 \times 1 + 11 \times 1 + 10 \times 1 + 6 \times 1 =$
8. $8 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 11 \times 1 + 8 \times 1 =$
9. $9 \times 1 + 9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$
10. $6 \times 1 + 9 \times 1 + 6 \times 1 + 9 \times 1 + 6 \times 1 + 9 \times 1 =$
11. $8 \times 1 + 10 \times 1 + 8 \times 1 + 10 \times 1 + 8 \times 1 + 10 \times 1 =$
12. $7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$
13. $9 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 + 10 \times 1 + 9 \times 1 =$
14. $13 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 =$
15. $8 \times 1 + 10 \times 1 + 8 \times 1 + 11 \times 1 + 8 \times 1 + 10 \times 1 =$
16. $12 \times 1 + 6 \times 1 + 9 \times 1 + 7 \times 1 + 8 \times 1 + 8 \times 1 =$
17. $6 \times 1 + 9 \times 1 + 8 \times 1 + 9 \times 1 + 5 \times 1 + 4 \times 1 =$
18. $8 \times 1 + 8 \times 1 + 6 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$
19. $6 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 + 11 \times 1 + 8 \times 1 =$
20. $5 \times 1 + 12 \times 1 + 6 \times 1 + 12 \times 1 + 8 \times 1 + 6 \times 1 =$
21. CCCXV =
22. CCLXXXVI =
23. CXVIII =
24. CCXCVII =
25. CLXIX =
26. CCCXXXII =
27. 276 = CCLXXVI.
28. 318 =
29. 245 =
30. 137 =
31. 309 =
32. 282 =
33. 111 =
34. 358 =
35. 201 =
36. CCXI =
37. CCCXL =
38. XCVI =
39. CXLV =
40. CCXXI =

LESSON XXIX.

1. $5 \times 7 + 6 \times 3 = 53 \times 1.$
2. $8 \times 6 + 5 \times 4 =$
3. $7 \times 11 + 8 \times 2 =$
4. $5 \times 6 + 9 \times 3 =$
5. $7 \times 4 + 8 \times 6 =$
6. $8 \times 4 + 7 \times 2 =$
7. $8 \times 6 + 7 \times 3 =$
8. $9 \times 6 + 6 \times 3 =$
9. $5 \times 8 + 8 \times 7 =$
10. $7 \times 3 + 9 \times 2 =$
11. $5 \times 11 + 11 \times 3 =$
12. $8 \times 6 + 4 \times 3 =$
13. $9 \times 5 + 5 \times 4 =$
14. $3 \times 12 + 12 \times 3 =$
15. $7 \times 6 + 3 \times 8 =$
16. $5 \times 11 + 4 \times 4 =$
17. $6 \times 6 + 5 \times 5 =$
18. $4 \times 8 + 8 \times 5 =$
19. $7 \times 6 + 9 \times 3 =$
20. $8 \times 7 + 5 \times 4 =$
21. $3 \times 9 + 8 \times 2 =$
22. $7 \times 6 + 6 \times 4 =$
23. $2 \times 8 + 9 \times 7 =$
24. $5 \times 3 + 6 \times 8 =$
25. $7 \times 7 + 5 \times 4 =$

SUBTRACTION.

(26)	(27)	(28)	(29)	(30)
836	914	763	646	928
271	812	312	314	814
—	—	—	—	—
115				
(31)	(32)	(33)	(34)	(35)
779	890	945	675	810
246	370	810	345	700
—	—	—	—	—
(36)	(37)	(38)	(39)	(40)
546	298	989	967	789
324	137	787	824	362
—	—	—	—	—

LESSON XXX.

(1)	(2)	(3)	(4)	(5)
9	6	9	7	4
6	7	5	6	10
9	5	8	11	8
5	11	9	5	4
4	6	11	8	7
—	—	—	—	—
33				
(6)	(7)	(8)	(9)	(10)
3	9	12	7	7
5	4	7	9	6
8	8	9	5	9
6	9	6	8	6
12	5	11	4	10
—	—	—	—	—

(11)	(12)	(13)	(14)	(15)
7	8	11	9	7
6	9	7	4	6
7	4	6	8	9
5	6	9	10	6
8	4	5	11	5
—	—	—	—	—

(16)	(17)	(18)	(19)	(20)
4	8	5	8	7
8	10	12	3	5
9	9	7	7	9
7	8	6	6	7
3	9	4	9	10
—	—	—	—	—

21. $5 \times 5 + 2 \times 5 + 3 \times 5 = 10 \times 5 = 50 \times 1.$

22. $8 \times 5 + 1 \times 5 + 3 \times 5 =$

23. $5 \times 5 + 2 \times 5 + 1 \times 5 =$

24. $2 \times 5 + 1 \times 5 + 2 \times 5 =$

25. $3 \times 5 + 3 \times 5 + 1 \times 5 =$

26. $2 \times 5 + 4 \times 5 + 4 \times 5 =$

27. $3 \times 6 + 2 \times 6 + 1 \times 6 =$

28. $1 \times 6 + 2 \times 6 + 1 \times 6 =$

29. $3 \times 6 + 1 \times 6 + 4 \times 6 =$

30. $1 \times 6 + 2 \times 6 + 7 \times 6 =$

31. $2 \times 6 + 2 \times 6 + 8 \times 6 =$

32. $1 \times 6 + 2 \times 6 + 8 \times 6 =$

33. $2 \times 6 + 2 \times 6 + 5 \times 6 =$

34. $2 \times 6 + 1 \times 6 + 4 \times 6 =$

35. $2 \times 7 + 3 \times 7 + 4 \times 7 =$

36. $1 \times 7 + 2 \times 7 + 3 \times 7 =$

37. $9 \times 7 + 1 \times 7 + 1 \times 7 =$

38. $2 \times 7 + 1 \times 7 + 5 \times 7 =$

39. $3 \times 7 + 8 \times 7 + 1 \times 7 =$

40. $2 \times 7 + 1 \times 7 + 7 \times 7 =$

41. $1 \times 7 + 1 \times 7 + 5 \times 7 =$

42. $3 \times 8 + 1 \times 8 + 5 \times 8 =$

43. $1 \times 8 + 2 \times 8 + 1 \times 8 =$

44. $2 \times 8 + 2 \times 8 + 8 \times 8 =$

45. $1 \times 8 + 3 \times 8 + 3 \times 8 =$

LESSON XXXI.

1. $10 \times 1 + 5 \times 1 + 6 \times 1 + 7 \times 1 + 3 \times 1 + 4 \times 1 =$
 $35 \times 1.$

2. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$

3. $3 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 6 \times 1 =$

4. $8 \times 1 + 4 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 =$

5. $4 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 =$

6. $11 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 8 \times 1 =$

7. $10 \times 1 + 10 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 =$

8. $9 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 + 7 \times 1 + 3 \times 1 =$

9. $11 \times 1 + 11 \times 1 + 9 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 =$

10. $6 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 =$

11. $10 \times 1 - 5 \times 1 = 5 \times 1.$

12. $10 \times 1 - 2 \times 1 =$

13. $10 \times 1 - 3 \times 1 =$

14. $10 \times 1 - 6 \times 1 =$

15. $10 \times 1 - 4 \times 1 =$

16. $10 \times 1 - 8 \times 1 =$

17. $10 \times 1 - 1 \times 1 =$

18. $10 \times 1 - 9 \times 1 =$

19. $10 \times 1 - 7 \times 1 =$

20. $9 \times 1 - 6 \times 1 =$

21. $9 \times 1 - 2 \times 1 =$

22. $9 \times 1 - 8 \times 1 =$

23. $9 \times 1 - 5 \times 1 =$

24. $9 \times 1 - 3 \times 1 =$

25. $9 \times 1 - 7 \times 1 =$

26. $9 \times 1 - 4 \times 1 =$

27. $8 \times 1 - 3 \times 1 =$

28. $8 \times 1 - 2 \times 1 =$

29. $8 \times 1 - 5 \times 1 =$

30. $8 \times 1 - 7 \times 1 =$

31. $8 \times 1 - 4 \times 1 =$

32. $8 \times 1 - 6 \times 1 =$

33. $7 \times 1 - 4 \times 1 =$

34. $7 \times 1 - 3 \times 1 =$

35. $7 \times 1 - 6 \times 1 =$

36. $7 \times 1 - 2 \times 1 =$

37. $7 \times 1 - 1 \times 1 =$

38. $7 \times 1 - 5 \times 1 =$

39. $6 \times 1 - 3 \times 1 =$

40. $6 \times 1 - 2 \times 1 =$

41. $6 \times 1 - 4 \times 1 =$

42. $6 \times 1 - 1 \times 1 =$

43. $6 \times 1 - 5 \times 1 =$

44. $5 \times 1 - 1 \times 1 =$

45. $5 \times 1 - 2 \times 1 =$

46. $5 \times 1 - 4 \times 1 =$

47. $5 \times 1 - 3 \times 1 =$

48. $4 \times 1 - 1 \times 1 =$

49. $4 \times 1 - 3 \times 1 =$

50. $4 \times 1 - 2 \times 1 =$

LESSON XXXII.

1. How many lemons, at 4 cts. each, can be bought for 28 cts.? *Ans.*—7 lemons can be bought; or 28 cts. will buy 7 lemons at 4 cts. each.

2. John had 17 cts.; he bought a present for his sister for 8 cts.; how many cents had he left?

3. How many months in 11 years?

4. How many pecks in 9 bushels?

5. How much will a bushel of potatoes cost at 12 cts. a peck?

6. How many lemons, at 3 cts. each, can be bought for 15 cts.?

7. How many shoes will it take to shoe six horses?

8. Lucy had 10 roses, Kate had 12 roses, and Mary had 9 roses; how many roses had the three girls?

$$9. 7 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 + 7 \times 1 + 4 \times 1 = 37 \times 1.$$

$$10. 8 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$$

$$11. 3 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$$

$$12. 9 \times 1 + 3 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 5 \times 1 =$$

$$13. 8 \times 1 + 7 \times 1 + 3 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$14. 7 \times 1 + 6 \times 1 + 7 \times 1 + 3 \times 1 + 5 \times 1 + 7 \times 1 =$$

$$15. 8 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 =$$

$$16. 9 \times 1 + 6 \times 1 + 3 \times 1 + 6 \times 1 + 9 \times 1 + 3 \times 1 =$$

$$17. 7 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 4 \times 1 =$$

$$18. 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$$

$$19. 7 \times 1 + 5 \times 1 + 4 \times 1 + 10 \times 1 + 6 \times 1 + 5 \times 1 =$$

$$20. 9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$21. 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 =$$

$$22. 7 \times 1 + 5 \times 1 + 8 \times 1 + 6 \times 1 + 3 \times 1 + 7 \times 1 =$$

LESSON XXXIII.

$$1. 10 \times 1 - 3 \times 1 = 7 \times 1.$$

$$2. 10 \times 1 - 2 \times 1 =$$

$$3. 10 \times 1 - 9 \times 1 =$$

$$4. 10 \times 1 - 5 \times 1 =$$

$$5. 10 \times 1 - 4 \times 1 =$$

$$6. 10 \times 1 - 6 \times 1 =$$

$$7. 10 \times 1 - 1 \times 1 =$$

8. $10 \times 1 - 7 \times 1 =$

9. $10 \times 1 - 8 \times 1 =$

10. $10 \times 1 - 10 \times 1 =$

11. $9 \times 1 - 1 \times 1 =$

12. $9 \times 1 - 7 \times 1 =$

13. $9 \times 1 - 2 \times 1 =$

14. $9 \times 1 - 3 \times 1 =$

15. $9 \times 1 - 5 \times 1 =$

16. $9 \times 1 - 4 \times 1 =$

17. $9 \times 1 - 6 \times 1 =$

18. $9 \times 1 - 8 \times 1 =$

19. $9 \times 1 - 9 \times 1 =$

20. $8 \times 1 - 1 \times 1 =$

21. $8 \times 1 - 3 \times 1 =$

22. $8 \times 1 - 5 \times 1 =$

23. $8 \times 1 - 2 \times 1 =$

24. $8 \times 1 - 4 \times 1 =$

25. $8 \times 1 - 6 \times 1 =$

26. $8 \times 1 - 7 \times 1 =$

27. $7 \times 1 - 6 \times 1 =$

28. $7 \times 1 - 3 \times 1 =$

29. $2 \times 12 + 3 \times 12 + 2 \times 12 = 7 \times 12 = 84 \times 1.$

30. $3 \times 12 + 1 \times 12 + 1 \times 12 =$

31. $1 \times 12 + 3 \times 12 + 5 \times 12 =$

32. $3 \times 12 + 3 \times 12 + 4 \times 12 =$

33. $3 \times 12 + 2 \times 12 + 3 \times 12 =$

34. $3 \times 12 + 3 \times 12 + 6 \times 12 =$

35. $2 \times 12 + 3 \times 12 + 7 \times 12 =$
36. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
37. $3 \times 12 + 3 \times 12 + 4 \times 12 =$
38. $3 \times 12 + 4 \times 12 + 4 \times 12 =$
39. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
40. $3 \times 11 + 4 \times 11 + 5 \times 11 =$
41. $3 \times 11 + 3 \times 11 + 4 \times 11 =$
42. $5 \times 11 + 2 \times 11 + 2 \times 11 =$
43. $3 \times 9 + 3 \times 9 + 3 \times 9 =$
44. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
45. $3 \times 9 + 4 \times 9 + 1 \times 9 =$

LESSON XXXIV.

1. $6 \times 7 + 5 \times 4 = 62 \times 1.$
2. $7 \times 5 + 4 \times 4 =$
3. $9 \times 6 + 3 \times 3 =$
4. $6 \times 5 + 4 \times 2 =$
5. $9 \times 7 + 6 \times 2 =$
6. $5 \times 8 + 1 \times 10 =$
7. $9 \times 9 + 5 \times 3 =$
8. $8 \times 8 + 7 \times 2 =$
9. $6 \times 6 + 5 \times 2 =$
10. $5 \times 5 + 4 \times 4 =$
11. $8 \times 7 + 6 \times 2 =$
12. $9 \times 4 + 3 \times 6 =$
13. $7 \times 10 + 6 \times 3 =$
14. $8 \times 7 + 4 \times 5 =$
15. $9 \times 9 + 3 \times 7 =$

- | | |
|-------------|----------------|
| 16. 91=XCI. | 29. XCIII= |
| 17. 175= | 30. CCXV= |
| 18. 264= | 31. LXXXIX= |
| 19. 183= | 32. LXXVIII= |
| 20. 372= | 33. CCIV= |
| 21. 256= | 34. XCIX= |
| 22. 147= | 35. XCVI= |
| 23. 328= | 36. CCCXXI= |
| 24. 239= | 37. CCLXXXIII= |
| 25. 106= | 38. CCCXCVI= |
| 26. LXXI= | 39. CCLXI= |
| 27. XLV= | 40. CCCXCIX= |
| 28. LXIV= | |

LESSON XXXV.

(1)	(2)	(3)	(4)	(5)	(6)
5	3	2	4	3	2
9	7	7	6	7	3
4	6	4	3	6	3
3	1	5	7	9	5
2	5	9	5	4	6
—	—	—	—	—	—
23					
(7)	(8)	(9)	(10)	(11)	(12)
3	4	2	3	4	3
4	5	5	4	4	7
5	7	7	3	5	3
6	7	9	7	5	5
7	8	6	6	6	4
—	—	—	—	—	—

13. $3 \times 12 + 2 \times 12 + 3 \times 12 = 8 \times 12 = 96 \times 1.$

14. $2 \times 12 + 4 \times 12 + 3 \times 12 =$

15. $3 \times 12 + 1 \times 12 + 1 \times 12 =$

16. $4 \times 12 + 5 \times 12 + 3 \times 12 =$

17. $2 \times 12 + 1 \times 12 + 2 \times 12 =$

18. $3 \times 12 + 4 \times 12 + 4 \times 12 =$

19. $1 \times 12 + 1 \times 12 + 1 \times 12 =$

20. $3 \times 9 + 4 \times 9 + 3 \times 9 =$

21. $2 \times 9 + 3 \times 9 + 3 \times 9 =$

22. $3 \times 9 + 4 \times 9 + 2 \times 9 =$

23. $2 \times 9 + 3 \times 9 + 1 \times 9 =$

24. $2 \times 8 + 2 \times 8 + 3 \times 8 =$

25. $2 \times 8 + 2 \times 8 + 2 \times 8 =$

26. $2 \times 8 + 4 \times 8 + 3 \times 8 =$

27. $2 \times 8 + 3 \times 8 + 2 \times 8 =$

28. $1 \times 8 + 1 \times 8 + 3 \times 8 =$

29. $2 \times 7 + 3 \times 7 + 3 \times 7 =$

30. $3 \times 7 + 4 \times 7 + 2 \times 7 =$

31. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

32. $2 \times 7 + 3 \times 7 + 1 \times 7 =$

33. $1 \times 7 + 1 \times 7 + 4 \times 7 =$

34. $2 \times 7 + 3 \times 7 + 5 \times 7 =$

35. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

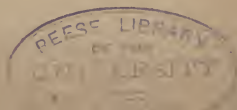
36. $3 \times 6 + 2 \times 6 + 3 \times 6 =$

37. $2 \times 6 + 3 \times 6 + 4 \times 6 =$

38. $2 \times 6 + 1 \times 6 + 2 \times 6 =$

39. $1 \times 6 + 3 \times 6 + 2 \times 6 =$

40. $2 \times 6 + 3 \times 6 + 2 \times 6 =$



LESSON XXXVI.

1. $3 \times 12 + 2 \times 12 + 5 \times 12 = 10 \times 12 = 120 \times 1.$
2. $3 \times 12 + 4 \times 12 + 5 \times 12 =$
3. $3 \times 12 + 1 \times 12 + 1 \times 12 =$
4. $2 \times 12 + 3 \times 12 + 2 \times 12 =$
5. $3 \times 12 + 4 \times 12 + 2 \times 12 =$
6. $1 \times 12 + 2 \times 12 + 3 \times 12 =$
7. $2 \times 12 + 4 \times 12 + 2 \times 12 =$
8. $3 \times 12 + 1 \times 12 + 7 \times 12 =$
9. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
10. $4 \times 11 + 3 \times 11 + 3 \times 11 =$
11. $3 \times 11 + 2 \times 11 + 1 \times 11 =$
12. $1 \times 11 + 3 \times 11 + 7 \times 11 =$
13. $2 \times 11 + 3 \times 11 + 3 \times 11 =$
14. $3 \times 11 + 4 \times 11 + 4 \times 11 =$
15. $2 \times 10 + 3 \times 10 + 4 \times 10 =$
16. $4 \times 10 + 3 \times 10 + 5 \times 10 =$
17. $3 \times 10 + 5 \times 10 + 3 \times 10 =$
18. $4 \times 9 + 4 \times 9 + 2 \times 9 =$
19. $3 \times 9 + 1 \times 9 + 1 \times 9 =$
20. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
21. $2 \times 9 + 3 \times 9 + 4 \times 9 =$
22. $3 \times 9 + 1 \times 9 + 4 \times 9 =$
23. $2 \times 9 + 1 \times 9 + 4 \times 9 =$
24. $1 \times 9 + 3 \times 9 + 3 \times 9 =$
25. $2 \times 8 + 4 \times 8 + 3 \times 8 =$
26. $3 \times 8 + 1 \times 8 + 2 \times 8 =$

27. $1 \times 8 + 4 \times 8 + 3 \times 8 =$

28. $3 \times 8 + 2 \times 8 + 2 \times 8 =$

29. $3 \times 8 + 4 \times 8 + 5 \times 8 =$

30. $2 \times 8 + 3 \times 8 + 6 \times 8 =$

31. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

32. $7 \times 7 + 3 \times 7 + 2 \times 7 =$

33. $2 \times 7 + 1 \times 7 + 4 \times 7 =$

34. $3 \times 7 + 1 \times 7 + 5 \times 7 =$

35. $1 \times 7 + 1 \times 7 + 1 \times 7 =$

36. $1 \times 7 + 2 \times 7 + 1 \times 7 =$

37. $2 \times 7 + 3 \times 7 + 2 \times 7 =$

38. $1 \times 7 + 4 \times 7 + 3 \times 7 =$

39. $3 \times 6 + 2 \times 6 + 2 \times 6 =$

40. $2 \times 6 + 2 \times 6 + 3 \times 6 =$

41. $3 \times 6 + 1 \times 6 + 8 \times 6 =$

42. $2 \times 6 + 3 \times 6 + 4 \times 6 =$

43. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

44. $3 \times 6 + 3 \times 6 + 2 \times 6 =$

45. $1 \times 6 + 1 \times 6 + 9 \times 6 =$

LESSON XXXVII.

1. How many cents in 4 dimes? *Ans.*—

There are 4×10 cents, which are 40 cents.

2. How many dimes in 50 cents? *Ans.*—

There are 5 dimes in 50 cents.

3. How many dimes in one dollar?

4. How many inches in 12 feet?

5. How much will 8 pounds of sugar cost at 7 cts. a pound?

6. How many pounds of sugar at 7 cts. a pound can be bought for 49 cents?

7. John paid 40 cents for some firecrackers and 24 cents for some torpedoes; how many cents did he pay for all?

- | | |
|--|----------------------------------|
| 8. $7 \times 6 + 5 \times 5 = 67 \times 1$. | 20. $6 \times 6 + 3 \times 4 =$ |
| 9. $9 \times 3 + 3 \times 5 =$ | 21. $8 \times 9 + 5 \times 3 =$ |
| 10. $8 \times 7 + 6 \times 2 =$ | 22. $11 \times 6 + 3 \times 5 =$ |
| 11. $7 \times 11 + 5 \times 4 =$ | 23. $8 \times 7 + 5 \times 4 =$ |
| 12. $6 \times 8 + 3 \times 7 =$ | 24. $7 \times 7 + 6 \times 3 =$ |
| 13. $5 \times 9 + 4 \times 6 =$ | 25. $9 \times 5 + 4 \times 6 =$ |
| 14. $6 \times 8 + 8 \times 3 =$ | 26. $8 \times 6 + 6 \times 5 =$ |
| 15. $7 \times 7 + 5 \times 5 =$ | 27. $9 \times 4 + 8 \times 6 =$ |
| 16. $8 \times 4 + 4 \times 3 =$ | 28. $7 \times 5 + 11 \times 6 =$ |
| 17. $7 \times 6 + 3 \times 8 =$ | 29. $3 \times 8 + 9 \times 4 =$ |
| 18. $9 \times 6 + 4 \times 3 =$ | 30. $9 \times 7 + 3 \times 3 =$ |
| 19. $8 \times 7 + 5 \times 4 =$ | |

LESSON XXXVIII.

- | | |
|---|---------------------------------|
| 1. $3 \times 7 + 5 \times 4 = 41 \times 1$ (or 41). | |
| 2. $7 \times 5 + 6 \times 2 =$ | 9. $7 \times 11 + 4 \times 2 =$ |
| 3. $9 \times 8 + 7 \times 2 =$ | 10. $8 \times 7 + 5 \times 3 =$ |
| 4. $8 \times 7 + 3 \times 3 =$ | 11. $7 \times 6 + 3 \times 6 =$ |
| 5. $6 \times 9 + 4 \times 4 =$ | 12. $9 \times 7 + 5 \times 2 =$ |
| 6. $7 \times 7 + 3 \times 4 =$ | 13. $6 \times 8 + 4 \times 4 =$ |
| 7. $8 \times 5 + 9 \times 2 =$ | 14. $5 \times 7 + 2 \times 3 =$ |
| 8. $10 \times 6 + 3 \times 5 =$ | 15. $6 \times 6 + 5 \times 5 =$ |

16. $16 \times 1 + 7 \times 1 + 3 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 = 46 \times 1.$
17. $10 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
18. $11 \times 1 + 11 \times 1 + 7 \times 1 + 5 \times 1 + 9 \times 1 + 3 \times 1 =$
19. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
20. $12 \times 1 + 12 \times 1 + 12 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
21. $8 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 6 \times 1 =$
22. $7 \times 1 + 5 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$
23. $9 \times 1 + 6 \times 1 + 10 \times 1 + 5 \times 1 + 10 \times 1 + 6 \times 1 =$
24. $11 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 5 \times 1 =$
25. $6 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 =$
26. $8 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 =$
27. $6 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 4 \times 1 + 3 \times 1 =$
28. $11 \times 1 + 7 \times 1 + 9 \times 1 + 10 \times 1 + 6 \times 1 + 5 \times 1 =$
29. $3 \times 7 + 5 \times 7 + 4 \times 7 =$
30. $2 \times 7 + 1 \times 7 + 6 \times 7 =$
31. $2 \times 7 + 3 \times 7 + 4 \times 7 =$
32. $5 \times 7 + 1 \times 7 + 1 \times 7 =$
33. $1 \times 7 + 1 \times 7 + 2 \times 7 =$
34. $2 \times 7 + 2 \times 7 + 1 \times 7 =$
35. $3 \times 7 + 1 \times 7 + 6 \times 7 =$

LESSON XXXIX.

1. $10 \times 1 - 7 \times 1 = 3 \times 1.$
2. $10 \times 1 - 2 \times 1 =$
3. $10 \times 1 - 9 \times 1 =$
4. $10 \times 1 - 6 \times 1 =$
5. $10 \times 1 - 10 \times 1 =$
6. $10 \times 1 - 3 \times 1 =$
7. $10 \times 1 - 5 \times 1 =$
8. $10 \times 1 - 8 \times 1 =$

- | | |
|----------------------------------|---------------------------------|
| 9. $10 \times 1 - 4 \times 1 =$ | 19. $9 \times 1 - 5 \times 1 =$ |
| 10. $10 \times 1 - 2 \times 1 =$ | 20. $9 \times 1 - 8 \times 1 =$ |
| 11. $10 \times 1 - 1 \times 1 =$ | 21. $8 \times 1 - 8 \times 1 =$ |
| 12. $9 \times 1 - 2 \times 1 =$ | 22. $8 \times 1 - 2 \times 1 =$ |
| 13. $9 \times 1 - 3 \times 1 =$ | 23. $8 \times 1 - 3 \times 1 =$ |
| 14. $9 \times 1 - 6 \times 1 =$ | 24. $8 \times 1 - 6 \times 1 =$ |
| 15. $9 \times 1 - 4 \times 1 =$ | 25. $8 \times 1 - 5 \times 1 =$ |
| 16. $9 \times 1 - 9 \times 1 =$ | 26. $8 \times 1 - 7 \times 1 =$ |
| 17. $9 \times 1 - 7 \times 1 =$ | 27. $8 \times 1 - 4 \times 1 =$ |
| 18. $9 \times 1 - 1 \times 1 =$ | 28. $8 \times 1 - 1 \times 1 =$ |
29. $3 \times 2 + 3 \times 2 + 3 \times 2 = 9 \times 2 = 18 \times 1.$
30. $2 \times 2 + 5 \times 2 + 4 \times 2 =$
31. $3 \times 2 + 3 \times 2 + 5 \times 2 =$
32. $3 \times 3 + 4 \times 3 + 3 \times 3 =$
33. $2 \times 3 + 3 \times 3 + 6 \times 3 =$
34. $1 \times 3 + 6 \times 3 + 2 \times 3 =$
35. $2 \times 3 + 4 \times 3 + 2 \times 3 =$
36. $3 \times 4 + 3 \times 4 + 6 \times 4 =$
37. $2 \times 4 + 4 \times 4 + 1 \times 4 =$
38. $1 \times 4 + 1 \times 4 + 5 \times 4 =$
39. $2 \times 4 + 3 \times 4 + 4 \times 4 =$
40. $1 \times 4 + 1 \times 4 + 4 \times 4 =$
41. $3 \times 5 + 3 \times 5 + 2 \times 5 =$
42. $2 \times 5 + 3 \times 5 + 7 \times 5 =$
43. $3 \times 5 + 4 \times 5 + 2 \times 5 =$
44. $2 \times 5 + 2 \times 5 + 3 \times 5 =$
45. $3 \times 6 + 1 \times 6 + 3 \times 6 =$

46. $2 \times 6 + 2 \times 6 + 2 \times 6 =$

47. $3 \times 6 + 1 \times 6 + 1 \times 6 =$

48. $2 \times 6 + 4 \times 6 + 5 \times 6 =$

49. $3 \times 6 + 1 \times 6 + 5 \times 6 =$

50. $1 \times 6 + 2 \times 6 + 4 \times 6 =$

LESSON XL.

1. CIII=103.

11. 143=CXLIII.

2. XCV=

12. 372=

3. LXXXI=

13. 211=

4. XLIV=

14. 101=

5. CCVIII=

15. 364=

6. LXXVII=

16. 110=

7. LXIX=

17. 396=

8. CCLVI=

18. 228=

9. CCXCIII=

19. 259=

10. CXIX=

20. 47=

21. $6 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 8 \times 1 + 7 \times 1 = 45 \times 1.$

22. $9 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 =$

23. $7 \times 1 + 7 \times 1 + 6 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 + 7 \times 1 =$

24. $10 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 3 \times 1 + 9 \times 1 =$

25. $6 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 =$

26. $11 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 9 \times 1 + 10 \times 1 =$
 27. $11 \times 1 + 12 \times 1 + 5 \times 1 + 4 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
 28. $10 \times 1 + 10 \times 1 + 7 \times 1 + 5 \times 1 + 6 \times 1 + 3 \times 1 + 5 \times 1 =$
 29. $7 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 + 4 \times 1 =$
 30. $5 \times 1 + 7 \times 1 + 6 \times 1 + 3 \times 1 + 8 \times 1 =$
 31. $10 \times 1 + 6 \times 1 + 3 \times 1 + 8 \times 1 + 5 \times 1 =$
 32. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
 33. $9 \times 1 + 5 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 =$
 34. $12 \times 1 + 12 \times 1 + 12 \times 1 + 6 \times 1 + 7 \times 1 =$
 35. $3 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 + 7 \times 1 =$
 36. $9 \times 1 + 3 \times 1 + 12 \times 1 + 8 \times 1 + 6 \times 1 =$
 37. $5 \times 1 + 4 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 =$
 38. $10 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
 39. $11 \times 1 + 11 \times 1 + 5 \times 1 + 7 \times 1 + 9 \times 1 =$
 40. $12 \times 1 + 12 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 =$
 41. $7 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 + 9 \times 1 =$
 42. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$
 43. $13 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 9 \times 1 =$
 44. $10 \times 1 + 5 \times 1 + 6 \times 1 + 4 \times 1 + 8 \times 1 =$
 45. $9 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 5 \times 1 =$

$9 \times 7 =$

$7 \times 5 =$

$6 \times 6 =$

$6 \times 8 =$

$9 \times 8 =$

$4 \times 9 =$

$12 \times 5 =$

$7 \times 11 =$

$6 \times 3 =$

$$\begin{array}{lll}
 12 \times 9 = & 6 \times 11 = & 9 \times 6 = \\
 5 \times 8 = & 3 \times 7 = & 4 \times 12 = \\
 11 \times 11 = & 12 \times 10 = & 10 \times 11 =
 \end{array}$$

LESSON XLI.

1. $7 \times 7 + 6 \times 3 = 67 \times 1$.
2. $9 \times 6 + 4 \times 4 =$
3. $6 \times 7 + 8 \times 3 =$
4. $9 \times 5 + 4 \times 3 =$
5. $10 \times 7 + 3 \times 5 =$
6. $8 \times 8 + 5 \times 5 =$
7. $11 \times 7 + 6 \times 3 =$
8. $9 \times 4 + 4 \times 9 =$
9. $5 \times 12 + 3 \times 5 =$
10. $8 \times 6 + 6 \times 3 =$
11. $9 \times 9 + 4 \times 3 =$
12. $10 \times 6 + 7 \times 5 =$
13. $8 \times 7 + 4 \times 3 =$
14. $9 \times 4 + 3 \times 3 =$
15. $7 \times 7 + 4 \times 5 =$
16. $6 \times 6 + 8 \times 3 =$
17. $9 \times 9 + 5 \times 5 =$
18. $11 \times 6 + 3 \times 10 =$
19. $9 \times 3 + 7 \times 4 =$
20. $10 \times 7 + 5 \times 2 =$
21. $7 \times 1 - 6 \times 1 = 1 \times 1$
22. $7 \times 1 - 5 \times 1 =$
23. $7 \times 1 - 1 \times 1 =$
24. $7 \times 1 - 3 \times 1 =$
25. $7 \times 1 - 2 \times 1 =$
26. $7 \times 1 - 4 \times 1 =$
27. $7 \times 1 - 7 \times 1 =$
28. $6 \times 1 - 3 \times 1 =$
29. $6 \times 1 - 6 \times 1 =$
30. $6 \times 1 - 2 \times 1 =$
31. $6 \times 1 - 1 \times 1 =$
32. $6 \times 1 - 5 \times 1 =$
33. $6 \times 1 - 4 \times 1 =$
34. $5 \times 1 - 1 \times 1 =$
35. $5 \times 1 - 5 \times 1 =$
36. $5 \times 1 - 2 \times 1 =$
37. $5 \times 1 - 4 \times 1 =$
38. $5 \times 1 - 3 \times 1 =$
39. $4 \times 1 - 4 \times 1 =$
40. $4 \times 1 - 1 \times 1 =$
41. $4 \times 1 - 3 \times 1 =$
42. $4 \times 1 - 2 \times 1 =$
43. $2 \times 1 - 2 \times 1 =$
44. $2 \times 1 - 1 \times 1 =$
45. $3 \times 1 - 2 \times 1 =$

LESSON XLII.

1. James has 16 cts., George has 9 cts., Fred has 7 cts., and James has 11 cts.; how many cents have all the boys together? *Ans.*—They have 43 cts.

2. How many days in 9 weeks?

3. There are 8 wheels on a car; how many wheels on 9 cars?

4. How many weeks in 42 days?

5. How many oranges, at 6 cts. each, can be bought for 48 cts.?

6. Lucy is 7 years old and her brother is 8 years older; how old is her brother?

7. How many months in 7 years?

8. In 60 months, how many years?

$$9. 9 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 10 \times 1 + 9 \times 1 = 49 \times 1.$$

$$10. 8 \times 1 + 11 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 =$$

$$11. 9 \times 1 + 6 \times 1 + 8 \times 1 + 10 \times 1 + 11 \times 1 + 6 \times 1 =$$

$$12. 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$13. 8 \times 1 + 9 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 8 \times 1 =$$

$$14. 7 \times 1 + 9 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 + 7 \times 1 =$$

$$15. 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 8 \times 1 =$$

$$16. 7 \times 1 + 8 \times 1 + 6 \times 1 + 10 \times 1 + 9 \times 1 + 7 \times 1 =$$

$$17. 10 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 9 \times 1 =$$

$$18. 7 \times 1 + 7 \times 1 + 9 \times 1 + 9 \times 1 + 6 \times 1 + 6 \times 1 =$$

$$19. 10 \times 1 + 10 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 =$$

$$20. 9 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$$

LESSON XLIII.

1. $3 \times 12 + 2 \times 12 + 1 \times 12 = 6 \times 12 = 72 \times 1.$
2. $4 \times 12 + 3 \times 12 + 2 \times 12 =$
3. $1 \times 12 + 3 \times 12 + 8 \times 12 =$
4. $3 \times 12 + 2 \times 12 + 2 \times 12 =$
5. $2 \times 12 + 3 \times 12 + 5 \times 12 =$
6. $4 \times 12 + 1 \times 12 + 3 \times 12 =$
7. $3 \times 12 + 1 \times 12 + 1 \times 12 =$
8. $2 \times 12 + 3 \times 12 + 6 \times 12 =$
9. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
10. $1 \times 12 + 1 \times 12 + 2 \times 12 =$
11. $2 \times 11 + 3 \times 11 + 3 \times 11 =$
12. $3 \times 11 + 2 \times 11 + 1 \times 11 =$
13. $3 \times 11 + 4 \times 11 + 4 \times 11 =$
14. $2 \times 11 + 4 \times 11 + 4 \times 11 =$
15. $3 \times 11 + 2 \times 11 + 4 \times 11 =$
16. $1 \times 11 + 1 \times 11 + 10 \times 11 =$
17. $3 \times 10 + 3 \times 10 + 1 \times 10 =$
18. $2 \times 10 + 3 \times 10 + 6 \times 10 =$
19. $3 \times 10 + 1 \times 10 + 6 \times 10 =$
20. $2 \times 10 + 2 \times 10 + 8 \times 10 =$
21. $3 \times 9 + 3 \times 9 + 3 \times 9 =$
22. $1 \times 9 + 1 \times 9 + 3 \times 9 =$
23. $3 \times 9 + 2 \times 9 + 2 \times 9 =$
24. $2 \times 9 + 3 \times 9 + 1 \times 9 =$
25. $3 \times 9 + 4 \times 9 + 5 \times 9 =$
26. $1 \times 9 + 1 \times 9 + 1 \times 9 =$

27. $2 \times 9 + 3 \times 9 + 3 \times 9 =$

28. $2 \times 9 + 4 \times 9 + 5 \times 9 =$

29. $1 \times 9 + 2 \times 9 + 1 \times 9 =$

30. $1 \times 8 + 3 \times 8 + 8 \times 8 =$

31. $2 \times 8 + 3 \times 8 + 2 \times 8 =$

32. $1 \times 8 + 1 \times 8 + 7 \times 8 =$

33. $2 \times 8 + 2 \times 8 + 4 \times 8 =$

34. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

35. $2 \times 8 + 3 \times 8 + 1 \times 8 =$

36. $1 \times 8 + 3 \times 8 + 1 \times 8 =$

37. $2 \times 8 + 3 \times 8 + 4 \times 8 =$

38. $1 \times 8 + 1 \times 8 + 9 \times 8 =$

39. $1 \times 8 + 1 \times 8 + 8 \times 8 =$

40. $1 \times 8 + 2 \times 8 + 1 \times 8 =$

41. $3 \times 7 + 2 \times 7 + 3 \times 7 =$

42. $2 \times 7 + 3 \times 7 + 2 \times 7 =$

43. $3 \times 7 + 1 \times 7 + 1 \times 7 =$

44. $2 \times 7 + 3 \times 7 + 1 \times 7 =$

45. $3 \times 7 + 3 \times 7 + 6 \times 7 =$

46. $7 \times 7 + 1 \times 7 + 1 \times 7 =$

47. $2 \times 7 + 2 \times 7 + 6 \times 7 =$

48. $1 \times 6 + 1 \times 6 + 3 \times 6 =$

49. $3 \times 6 + 3 \times 6 + 6 \times 6 =$

50. $2 \times 6 + 4 \times 6 + 3 \times 6 =$

LESSON XLIV.

1. $9 \times 9 + 3 \times 4 = 93 \times 1$.
2. $10 \times 10 + 7 \times 3 =$
3. $9 \times 8 + 6 \times 5 =$
4. $4 \times 7 + 8 \times 2 =$
5. $9 \times 6 + 7 \times 3 =$
6. $8 \times 7 + 4 \times 4 =$
7. $6 \times 6 + 5 \times 5 =$
8. $7 \times 5 + 4 \times 6 =$
9. $8 \times 8 + 6 \times 4 =$
10. $10 \times 7 + 5 \times 6 =$.
11. $6 \times 8 + 7 \times 2 =$
12. $9 \times 5 + 4 \times 4 =$
13. $3 \times 8 + 3 \times 4 =$
14. $5 \times 12 + 4 \times 6 =$
15. $3 \times 7 + 5 \times 4 =$
16. $9 \times 8 + 3 \times 6 =$
17. $7 \times 7 + 3 \times 3 =$
18. $8 \times 9 + 4 \times 2 =$
19. $9 \times 6 + 3 \times 4 =$
20. $11 \times 8 + 5 \times 3 =$
21. $7 \times 1 + 5 \times 1 + 6 \times 1 + 4 \times 1 + 7 \times 1 + 5 \times 1 =$
 34×1 .
22. $6 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 9 \times 1 =$
23. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
24. $8 \times 1 + 10 \times 1 + 7 \times 1 + 5 \times 1 + 9 \times 1 + 10 \times 1 =$
25. $11 \times 1 + 11 \times 1 + 11 \times 1 + 7 \times 1 + 11 \times 1 +$
 $9 \times 1 =$
26. $8 \times 1 + 5 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 =$
27. $12 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 + 8 \times 1 + 8 \times 1 =$
28. $13 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 9 \times 1 + 7 \times 1 =$
29. $10 \times 1 + 10 \times 1 + 8 \times 1 + 10 \times 1 + 9 \times 1 + 7 \times 1 =$
30. $12 \times 1 + 12 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 6 \times 1 =$
31. $13 \times 1 + 7 \times 1 + 9 \times 1 + 9 \times 1 + 7 \times 1 + 9 \times 1 =$
32. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 +$
 $8 \times 1 =$
33. $9 \times 1 + 8 \times 1 + 9 \times 1 + 8 \times 1 + 9 \times 1 + 8 \times 1 =$

34. $6 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 =$
 35. $10 \times 1 + 12 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 3 \times 1 =$
 36. $7 \times 1 + 7 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
 37. $9 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 5 \times 1 =$
 38. $10 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 =$
 39. $8 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
 40. $6 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$

LESSON XLV.

NOTE.—The children are to be taught to write numbers from 400 to 1000.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
376	724	546	665	448
124	113	413	104	135
—	—	—	—	—
(6)	(7)	(8)	(9)	(10)
243	437	576	993	876
131	426	132	172	544
—	—	—	—	—
(11)	(12)	(13)	(14)	(15)
416	962	827	770	676
312	701	416	320	105
—	—	—	—	—

16. CCXXV=

20. XIV=

17. CIX=

21. XXXVI=

18. XCIV=

22. LXVII=

19. LXXXVIII=

23. CCXXIII=

24. CCXCV=	30. 310=
25. CCXL=	31. 163=
26. 275=	32. 342=
27. 386=	33. 202=
28. 254=	34. 119=
29. 101=	35. 299=

LESSON XLVI.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
738	660	814	554	925
127	610	712	132	113
—	—	—	—	—
(6)	(7)	(8)	(9)	(10)
327	776	443	667	735
216	661	322	616	514
—	—	—	—	—
(11)	(12)	(13)	(14)	(15)
827	326	514	665	929
116	324	310	322	727
—	—	—	—	—

- | | |
|---|----------------------------------|
| 16. $7 \times 7 + 3 \times 5 = 64 \times 1$. | 24. $7 \times 6 + 4 \times 3 =$ |
| 17. $9 \times 6 + 4 \times 4 =$ | 25. $9 \times 9 + 3 \times 2 =$ |
| 18. $10 \times 8 + 3 \times 10 =$ | 26. $11 \times 6 + 5 \times 4 =$ |
| 19. $9 \times 7 + 6 \times 3 =$ | 27. $7 \times 9 + 6 \times 2 =$ |
| 20. $8 \times 9 + 7 \times 2 =$ | 28. $8 \times 8 + 4 \times 4 =$ |
| 21. $7 \times 6 + 3 \times 8 =$ | 29. $11 \times 7 + 3 \times 5 =$ |
| 22. $6 \times 6 + 5 \times 5 =$ | 30. $9 \times 10 + 4 \times 6 =$ |
| 23. $9 \times 8 + 5 \times 7 =$ | |

LESSON XLVII.

(1)	(2)	(3)	(4)	(5)
6	7	3	5	5
5	6	9	7	5
8	4	10	2	5
7	7	7	6	5
10	11	12	14	8
—	—	—	—	—
(6)	(7)	(8)	(9)	(10)
7	4	6	4	4
3	6	6	4	4
6	10	7	7	5
11	7	7	6	10
13	15	6	9	12
—	—	—	—	—
(11)	(12)	(13)	(14)	(15)
7	9	3	13	10
3	2	6	7	9
6	9	7	6	6
4	3	13	4	3
8	9	12	12	14
—	—	—	—	—

$$16. 8 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 = 44 \times 1.$$

$$17. 11 \times 1 + 7 \times 1 + 9 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$18. 12 \times 1 + 12 \times 1 + 7 \times 1 + 7 \times 1 + 10 \times 1 + 6 \times 1 =$$

$$19. 13 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 7 \times 1 =$$

$$20. 14 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 10 \times 1 =$$

$$21. 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$$

$$22. 12 \times 1 + 12 \times 1 + 9 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 =$$

$$23. 12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$$

$$24. 9 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 =$$

$$25. 8 \times 1 + 10 \times 1 + 8 \times 1 + 10 \times 1 + 8 \times 1 + 10 \times 1 =$$

$$26. 156 = \text{CLVI.}$$

$$31. 183 =$$

$$27. 294 =$$

$$32. 62 =$$

$$28. 127 =$$

$$33. 237 =$$

$$29. 255 =$$

$$34. 148 =$$

$$30. 378 =$$

$$35. 107 =$$

LESSON XLVIII.

1. Fred sold 24 papers on Monday, and 37 papers on Tuesday; how many papers did he sell during the two days? *Ans.*—He sold 61 papers.

2. How much will 1 peck of peanuts cost at 5 cts. a quart? *Ans.*—They will cost 8×5 cents which are 40 cents.

3. How many feet in 9 yards?

4. Kate ran 12 yards; how many feet did she run?

5. How many spools of thread at 5 cents a spool can be bought for 45 cents?

6. How many quarts in 6 gallons ?

7. Lucy is 15 years old and her mother is 25 years older ; how old is her mother ?

8. John paid 18 cents for some candy and 13 cents for some peanuts ; how much did he pay for both ?

$$9. 6 \times 7 + 7 \times 6 =$$

$$18. 11 \times 6 + 6 \times 3 =$$

$$10. 8 \times 5 + 5 \times 3 =$$

$$19. 7 \times 5 + 5 \times 5 =$$

$$11. 9 \times 6 + 6 \times 2 =$$

$$20. 8 \times 4 + 4 \times 7 =$$

$$12. 8 \times 7 + 7 \times 3 =$$

$$21. 6 \times 6 + 5 \times 5 =$$

$$13. 12 \times 4 + 4 \times 6 =$$

$$22. 8 \times 8 + 3 \times 3 =$$

$$14. 7 \times 3 + 8 \times 4 =$$

$$23. 9 \times 9 + 4 \times 4 =$$

$$15. 9 \times 5 + 5 \times 5 =$$

$$24. 12 \times 12 + 5 \times 3 =$$

$$16. 10 \times 7 + 7 \times 4 =$$

$$25. 7 \times 11 + 6 \times 4 =$$

$$17. 8 \times 6 + 6 \times 3 =$$

LESSON XLIX.

$$1. 7 \times 5 + 6 \times 2 + 3 \times 1 = 50 \times 1.$$

$$2. 8 \times 7 + 4 \times 4 + 2 \times 2 =$$

$$3. 9 \times 4 + 6 \times 4 + 3 \times 3 =$$

$$4. 10 \times 6 + 7 \times 3 + 6 \times 2 =$$

$$5. 6 \times 9 + 9 \times 2 + 4 \times 4 =$$

$$6. 8 \times 8 + 5 \times 5 + 1 \times 6 =$$

$$7. 9 \times 7 + 6 \times 5 + 3 \times 4 =$$

$$8. 7 \times 7 + 5 \times 7 + 6 \times 1 =$$

$$9. 9 \times 10 + 3 \times 8 + 1 \times 10 =$$

$$10. 5 \times 11 + 7 \times 4 + 2 \times 1 =$$

11. $8 \times 9 + 6 \times 3 + 3 \times 2 =$

12. $9 \times 5 + 5 \times 5 + 2 \times 2 =$

13. $4 \times 11 + 7 \times 4 + 2 \times 5 =$

14. $6 \times 10 + 7 \times 3 + 3 \times 2 =$

15. $9 \times 7 + 3 \times 4 + 2 \times 2 =$

SUBTRACTION.

(16)	(17)	(18)	(19)	(20)
756	994	864	660	526
136	632	322	550	416
—	—	—	—	—

(21)	(22)	(23)	(24)	(25)
437	360	673	928	875
126	250	661	716	661
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)
384	956	726	676	963
273	325	114	506	721
—	—	—	—	—

(31)	(32)	(33)	(34)	(35)
846	749	676	952	676
726	627	676	752	624
—	—	—	—	—

LESSON L.

1. $5 \times 12 + 3 \times 12 + 2 \times 12 = 10 \times 12 = 120 \times 1$

2. $3 \times 12 + 1 \times 12 + 1 \times 12 =$

3. $4 \times 12 + 4 \times 12 + 4 \times 12 =$

4. $1 \times 12 + 1 \times 12 + 1 \times 12 =$

5. $3 \times 12 + 2 \times 12 + 2 \times 12 =$
6. $1 \times 12 + 1 \times 12 + 2 \times 12 =$
7. $3 \times 12 + 3 \times 12 + 3 \times 12 =$
8. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
9. $3 \times 12 + 4 \times 12 + 4 \times 12 =$
10. $1 \times 12 + 3 \times 12 + 5 \times 12 =$
11. $3 \times 11 + 3 \times 11 + 3 \times 11 =$
12. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
13. $1 \times 11 + 3 \times 11 + 7 \times 11 =$
14. $2 \times 11 + 3 \times 11 + 3 \times 11 =$
15. $3 \times 11 + 4 \times 11 + 5 \times 11 =$
16. $2 \times 11 + 3 \times 11 + 2 \times 11 =$
17. $3 \times 11 + 1 \times 11 + 1 \times 11 =$
18. $2 \times 11 + 2 \times 11 + 2 \times 11 =$
19. $3 \times 10 + 3 \times 10 + 4 \times 10 =$
20. $2 \times 10 + 4 \times 10 + 2 \times 10 =$
21. $3 \times 10 + 5 \times 10 + 3 \times 10 =$
22. $1 \times 10 + 1 \times 10 + 10 \times 10 =$
23. $2 \times 10 + 2 \times 10 + 2 \times 10 =$
24. $3 \times 9 + 3 \times 9 + 4 \times 9 =$
25. $3 \times 9 + 1 \times 9 + 1 \times 9 =$
26. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
27. $3 \times 9 + 2 \times 9 + 2 \times 9 =$
28. $2 \times 9 + 1 \times 9 + 1 \times 9 =$
29. $3 \times 9 + 2 \times 9 + 3 \times 9 =$
30. $2 \times 9 + 4 \times 9 + 6 \times 9 =$
31. $3 \times 9 + 3 \times 9 + 5 \times 9 =$

32. $1 \times 9 + 3 \times 9 + 2 \times 9 =$

33. $2 \times 8 + 3 \times 8 + 3 \times 8 =$

34. $3 \times 8 + 4 \times 8 + 5 \times 8 =$

35. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

36. $3 \times 8 + 1 \times 8 + 1 \times 8 =$

37. $1 \times 8 + 1 \times 8 + 5 \times 8 =$

38. $2 \times 8 + 2 \times 8 + 2 \times 8 =$

39. $3 \times 8 + 1 \times 8 + 5 \times 8 =$

40. $1 \times 8 + 7 \times 8 + 3 \times 8 =$

LESSON LI.

NOTE.—The children are to be taught to add the first column and write the right hand figure of the sum under the first column, and add the left hand figure of the sum to the second column; proceeding thus with each column until the last column when the whole number of the sum is written. Nothing is said to the children of units, of tens, or of “carrying.” (See Nos. 21–32.)

1. $2 \times 12 + 3 \times 12 + 2 \times 12 = 7 \times 12 = 84 \times 1.$

2. $3 \times 12 + 4 \times 12 + 2 \times 12 =$

3. $3 \times 12 + 3 \times 12 + 5 \times 12 =$

4. $2 \times 12 + 1 \times 12 + 2 \times 12 =$

5. $3 \times 12 + 1 \times 12 + 2 \times 12 =$

6. $2 \times 12 + 1 \times 12 + 1 \times 12 =$

7. $3 \times 12 + 3 \times 12 + 2 \times 12 =$

8. $2 \times 12 + 4 \times 12 + 4 \times 12 =$

9. $3 \times 12 + 3 \times 12 + 6 \times 12 =$

10. $1 \times 12 + 1 \times 12 + 1 \times 12 =$

SECOND-YEAR ARITHMETIC.

11. $7 \times 7 + 5 \times 5 + 3 \times 3 =$

12. $9 \times 9 + 5 \times 6 + 3 \times 2 =$

13. $7 \times 8 + 5 \times 7 + 6 \times 1 =$

14. $8 \times 9 + 6 \times 4 + 3 \times 2 =$

15. $9 \times 7 + 5 \times 8 + 2 \times 4 =$

16. $10 \times 6 + 7 \times 4 + 4 \times 4 =$

17. $6 \times 7 + 7 \times 6 + 6 \times 1 =$

18. $8 \times 5 + 9 \times 3 + 2 \times 5 =$

19. $9 \times 4 + 4 \times 8 + 3 \times 6 =$

20. $3 \times 11 + 7 \times 8 + 6 \times 2 =$

(21)	(22)	(23)	(24)
325	114	386	136
134	411	168	163
268	141	144	212
74	114	221	122
---	---	---	---

(25)	(26)	(27)	(28)
139	330	135	314
283	303	72	413
72	333	164	134
6	33	8	25
---	---	---	---

(29)	(30)	(31)	(32)
36	550	382	306
124	105	76	603
275	96	9	8
13	9	135	7
---	---	---	---

(33)	(34)	(35)	(36)
134	212	316	414
6	75	67	144
152	134	127	94
71	63	8	4
---	---	---	---

LESSON LII.

(1)	(2)	(3)	(4)	
275	514	114	327	
133	73	206	54	
246	164	138	6	
74	9	110	131	
---	---	---	---	
(5)	(6)	(7)	(8)	
766	324	115	314	
9	125	511	413	
34	146	127	134	
7	93	16	34	
---	---	---	---	
(9)	(10)	(11)	(12)	(13)
167	245	313	726	212
27	135	180	96	186
137	275	109	145	127
7	135	27	37	155
---	---	---	---	---
(14)	(15)	(16)	(17)	(18)
113	138	275	115	136
76	147	75	74	127
127	126	135	318	215
34	336	75	76	74
---	---	---	---	---

19. $3 \times 9 + 2 \times 9 + 3 \times 9 = 8 \times 9 = 72 \times 1.$
20. $1 \times 9 + 4 \times 9 + 5 \times 9 =$
21. $2 \times 9 + 3 \times 9 + 1 \times 9 =$
22. $3 \times 9 + 4 \times 9 + 5 \times 9 =$
23. $1 \times 9 + 3 \times 9 + 1 \times 9 =$
24. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
25. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
26. $2 \times 9 + 3 \times 9 + 4 \times 9 =$
27. $1 \times 9 + 1 \times 9 + 2 \times 9 =$
28. $3 \times 9 + 3 \times 9 + 5 \times 9 =$
29. $3 \times 8 + 7 \times 8 + 2 \times 8 =$
30. $1 \times 8 + 4 \times 8 + 2 \times 8 =$
31. $2 \times 8 + 1 \times 8 + 1 \times 8 =$
32. $3 \times 8 + 2 \times 8 + 3 \times 8 =$
33. $3 \times 8 + 5 \times 8 + 1 \times 8 =$
34. $2 \times 8 + 3 \times 8 + 2 \times 8 =$
35. $3 \times 8 + 3 \times 8 + 4 \times 8 =$
36. $2 \times 8 + 4 \times 8 + 5 \times 8 =$

LESSON LIII.

1. $10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 = 45 \times 1.$
2. $9 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 =$
3. $8 \times 1 + 7 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 6 \times 1 =$
4. $11 \times 1 + 11 \times 1 + 11 \times 1 + 9 \times 1 + 7 \times 1 + 10 \times 1 =$
5. $9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$

6. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$

7. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$

8. $6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$

9. $5 \times 1 + 11 \times 1 + 5 \times 1 + 11 \times 1 + 5 \times 1 + 11 \times 1 =$

10. $7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 + 5 \times 1 =$

11. $8 \times 1 + 8 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 =$

12. $5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 =$

13. $6 \times 1 + 10 \times 1 + 5 \times 1 + 7 \times 1 + 7 \times 1 + 4 \times 1 =$

14. $12 \times 1 + 3 \times 1 + 5 \times 1 + 4 \times 1 + 10 \times 1 + 6 \times 1 =$

15. $9 \times 1 + 5 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 =$

16. $11 \times 1 + 12 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 5 \times 1 =$

17. $9 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 3 \times 1 + 3 \times 1 =$

18. $8 \times 1 + 5 \times 1 + 5 \times 1 + 5 \times 1 + 5 \times 1 + 5 \times 1 =$

19. $6 \times 1 + 5 \times 1 + 7 \times 1 + 11 \times 1 + 7 \times 1 + 2 \times 1 =$

20. $9 \times 1 + 3 \times 1 + 12 \times 1 + 5 \times 1 + 6 \times 1 + 7 \times 1 =$

21. CCLXVI = 26. CCII =

22. CXC = 27. CXIX =

23. CCCXXXIII = 28. CCCXV =

24. LXXIV = 29. CLXXI =

25. XCVIII = 30. CCXLIII =

- | | |
|---------------|----------|
| 31. CCCLVIII= | 36. 155= |
| 32. CV= | 37. 286= |
| 33. LXIX= | 38. 397= |
| 34. 274= | 39. 143= |
| 35. 321= | 40. 369= |

LESSON LIV.

1. How many inches in 8 feet? *Ans.*—
There are 8×12 inches, which are 96 inches.

2. How many months in 9 years?

3. How many pecks in 7 bushels?

4. How many quarts in 12 pecks?

5. In 6 gallons, how many quarts?

6. How many feet in 36 inches?

7. John shot an arrow 33 feet; how far would he have to go to get the arrow and bring it back?

8. Sara is 7 years old and her father is 4 times as old; how old is her father?

9. $6 \times 8 + 7 \times 3 = 69 \times 1$.

10. $9 \times 5 + 4 \times 8 =$

18. $9 \times 6 + 6 \times 3 =$

11. $10 \times 7 + 6 \times 4 =$

19. $7 \times 6 + 7 \times 6 =$

12. $8 \times 5 + 6 \times 7 =$

20. $11 \times 5 + 5 \times 11 =$

13. $9 \times 4 + 8 \times 3 =$

21. $10 \times 6 + 7 \times 5 =$

14. $7 \times 6 + 6 \times 7 =$

22. $8 \times 7 + 7 \times 6 =$

15. $9 \times 5 + 5 \times 8 =$

23. $9 \times 5 + 8 \times 5 =$

16. $7 \times 6 + 6 \times 3 =$

24. $9 \times 9 + 8 \times 3 =$

17. $7 \times 7 + 5 \times 5 =$

25. $7 \times 8 + 6 \times 5 =$

LESSON LV.

1. $9 \times 8 + 6 \times 6 = 108 \times 1.$
2. $5 \times 9 + 8 \times 6 =$
3. $3 \times 7 + 6 \times 12 =$
4. $8 \times 8 + 5 \times 5 =$
5. $4 \times 4 + 3 \times 12 =$
6. $9 \times 2 + 8 \times 6 =$
7. $7 \times 5 + 8 \times 3 =$
8. $2 \times 12 + 3 \times 6 =$
9. $9 \times 4 + 2 \times 8 =$
10. $7 \times 5 + 8 \times 3 =$
11. $9 \times 6 + 7 \times 7 =$
12. $8 \times 3 + 6 \times 5 =$
13. $7 \times 4 + 8 \times 2 =$
14. $3 \times 12 + 8 \times 10 =$
15. $9 \times 2 + 10 \times 6 =$
16. $7 \times 5 + 3 \times 12 =$
17. $9 \times 4 + 7 \times 7 =$
18. $6 \times 6 + 3 \times 9 =$
19. $9 \times 2 + 8 \times 7 =$
20. $6 \times 5 + 5 \times 7 =$
21. $4 \times 12 + 3 \times 6 =$
22. $5 \times 7 + 6 \times 4 =$
23. $7 \times 2 + 8 \times 3 =$
24. $12 \times 12 + 5 \times 4 =$
25. $3 \times 11 + 8 \times 2 =$

(26)	(27)	(28)	(29)	(30)
118	5	101	56	316
76	94	296	87	95
94	182	87	94	18
7	9	30	79	19
---	---	---	---	---

(31)	(32)	(33)	(34)	(35)
7	127	156	7	314
29	6	9	29	20
86	118	121	8	9
187	9	18	65	9
---	---	---	---	---

(36)	(37)	(38)	(39)	(40)
111	225	150	118	100
79	86	93	116	110
86	18	87	119	120
97	81	9	117	119
—	—	—	—	—
(41)	(42)	(43)	(44)	(45)
9	187	212	19	220
59	59	120	118	202
87	8	86	127	9
196	126	95	59	18
—	—	—	—	—
(46)	(47)	(48)	(49)	(50)
375	416	372	516	284
124	105	141	113	181
—	—	—	—	—

LESSON LVI.

- $45 \times 1 + 18 \times 1 = 63 \times 1$.
- $36 \times 1 + 54 \times 1 =$
- $28 \times 1 + 63 \times 1 =$
- $56 \times 1 + 35 \times 1 =$
- $40 \times 1 + 28 \times 1 =$
- $64 \times 1 + 36 \times 1 =$
- $77 \times 1 + 24 \times 1 =$
- $84 \times 1 + 21 \times 1 =$
- $35 \times 1 + 35 \times 1 =$
- $54 \times 1 + 40 \times 1 =$
- $66 \times 1 + 44 \times 1 =$
- $40 \times 1 + 56 \times 1 =$
- $21 \times 1 + 77 \times 1 =$
- $100 \times 1 + 81 \times 1 =$
- $36 \times 1 + 50 \times 1 =$
- $54 \times 1 + 45 \times 1 =$
- $49 \times 1 + 36 \times 1 =$
- $55 \times 1 + 81 \times 1 =$
- $75 \times 1 + 19 \times 1 =$
- $63 \times 1 + 50 \times 1 =$

21. $3 \times 7 + 2 \times 7 + 3 \times 7 = 8 \times 7 = 56 \times 1.$
22. $2 \times 7 + 2 \times 7 + 5 \times 7 =$
23. $1 \times 7 + 1 \times 7 + 1 \times 7 =$
24. $3 \times 7 + 3 \times 7 + 4 \times 7 =$
25. $2 \times 7 + 1 \times 7 + 2 \times 7 =$
26. $1 \times 7 + 2 \times 7 + 1 \times 7 =$
27. $2 \times 7 + 3 \times 7 + 1 \times 7 =$
28. $1 \times 7 + 1 \times 7 + 5 \times 7 =$
29. $2 \times 7 + 2 \times 7 + 3 \times 7 =$
30. $3 \times 7 + 3 \times 7 + 2 \times 7 =$
31. $3 \times 7 + 3 \times 7 + 5 \times 7 =$
32. $2 \times 7 + 4 \times 7 + 6 \times 7 =$
33. $1 \times 7 + 1 \times 7 + 7 \times 7 =$
34. $2 \times 6 + 3 \times 6 + 3 \times 6 =$
35. $3 \times 6 + 1 \times 6 + 1 \times 6 =$
36. $2 \times 6 + 7 \times 6 + 2 \times 6 =$
37. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
38. $3 \times 6 + 1 \times 6 + 2 \times 6 =$
39. $1 \times 6 + 3 \times 6 + 5 \times 6 =$
40. $2 \times 6 + 2 \times 6 + 3 \times 6 =$
41. $3 \times 6 + 3 \times 6 + 6 \times 6 =$
42. $1 \times 6 + 2 \times 6 + 1 \times 6 =$
43. $3 \times 6 + 2 \times 6 + 4 \times 6 =$
44. $3 \times 6 + 1 \times 6 + 6 \times 6 =$

LESSON LVII.

1. $6 \times 7 + 5 \times 7 + 3 \times 3 = 86 \times 1.$
2. $9 \times 9 + 6 \times 3 + 1 \times 2 =$



LESSON LVII.

1. $6 \times 7 + 5 \times 7 + 3 \times 3 = 86 \times 1.$
2. $9 \times 9 + 6 \times 3 + 1 \times 2 =$
3. $10 \times 5 + 6 \times 7 + 3 \times 2 =$
4. $9 \times 5 + 7 \times 4 + 4 \times 1 =$
5. $5 \times 8 + 9 \times 6 + 1 \times 5 =$
6. $7 \times 7 + 6 \times 6 + 2 \times 2 =$
7. $8 \times 8 + 7 \times 7 + 1 \times 3 =$
8. $9 \times 5 + 6 \times 7 + 3 \times 3 =$
9. $12 \times 7 + 7 \times 5 + 3 \times 2 =$
10. $9 \times 6 + 6 \times 9 + 5 \times 2 =$
11. $7 \times 6 + 3 \times 11 + 12 \times 1 =$
12. $10 \times 7 + 7 \times 8 + 3 \times 4 =$
13. $11 \times 6 + 6 \times 9 + 3 \times 3 =$
14. $12 \times 5 + 7 \times 9 + 5 \times 1 =$
15. $8 \times 8 + 8 \times 8 + 2 \times 3 =$

SUBTRACTION.

(16)	(17)	(18)	(19)	(20)
775	958	876	953	887
121	148	304	100	663
—	—	—	—	—
(21)	(22)	(23)	(24)	(25)
736	584	735	518	376
616	504	615	413	145
—	—	—	—	—
(26)	(27)	(28)	(29)	(30)
729	584	646	848	966
609	484	613	724	721
—	—	—	—	—

- | | |
|----------------|----------------|
| 31. 124=CXXIV. | 36. CI= |
| 32. 207= | 37. CCXVI= |
| 33. 356= | 38. CCCLXXXIV= |
| 34. 143= | 39. CXCVIII= |
| 35. 256= | 40. CCLX= |

LESSON LVIII.

(1)	(2)	(3)	(4)	(5)
326	255	616	327	336
154	86	76	77	100
27	7	136	127	96
133	138	6	67	276
---	---	---	---	---

(6)	(7)	(8)	(9)	(10)
167	100	354	716	325
155	69	86	85	76
200	184	9	9	148
73	96	2	13	9
---	---	---	---	---

(11)	(12)	(13)	(14)
325	229	445	154
96	75	167	74
184	186	135	138
33	35	46	26
---	---	---	---

15. $3 \times 12 + 3 \times 12 + 3 \times 12 = 9 \times 12 = 108 \times 1.$

16. $2 \times 12 + 2 \times 12 + 2 \times 12 =$

17. $4 \times 12 + 4 \times 12 + 4 \times 12 =$

18. $1 \times 12 + 1 \times 12 + 1 \times 12 =$

19. $2 \times 12 + 2 \times 12 + 1 \times 12 =$

20. $3 \times 12 + 3 \times 12 + 2 \times 12 =$

21. $2 \times 12 + 2 \times 12 + 7 \times 12 =$

22. $1 \times 12 + 1 \times 12 + 2 \times 12 =$

23. $3 \times 12 + 2 \times 12 + 2 \times 12 =$

24. $2 \times 12 + 2 \times 12 + 6 \times 12 =$

25. $1 \times 12 + 2 \times 12 + 1 \times 12 =$

26. $3 \times 11 + 3 \times 11 + 3 \times 11 =$

27. $2 \times 11 + 5 \times 11 + 4 \times 11 =$

28. $3 \times 11 + 5 \times 11 + 2 \times 11 =$

29. $2 \times 11 + 2 \times 11 + 2 \times 11 =$

30. $3 \times 11 + 4 \times 11 + 5 \times 11 =$

31. $3 \times 11 + 5 \times 11 + 1 \times 11 =$

32. $2 \times 11 + 3 \times 11 + 2 \times 11 =$

33. $1 \times 11 + 1 \times 11 + 3 \times 11 =$

34. $3 \times 11 + 1 \times 11 + 2 \times 11 =$

35. $2 \times 10 + 3 \times 10 + 4 \times 10 =$

36. $3 \times 10 + 4 \times 10 + 5 \times 10 =$

37. $1 \times 10 + 2 \times 10 + 3 \times 10 =$

38. $2 \times 10 + 3 \times 10 + 2 \times 10 =$

39. $4 \times 10 + 4 \times 10 + 3 \times 10 =$

40. $2 \times 10 + 3 \times 10 + 5 \times 10 =$

LESSON LIX.

1. $3 \times 9 + 4 \times 9 + 2 \times 9 = 9 \times 9 = 81 \times 1.$

2. $2 \times 9 + 3 \times 9 + 5 \times 9 =$

3. $1 \times 9 + 2 \times 9 + 4 \times 9 =$
4. $2 \times 9 + 4 \times 9 + 6 \times 9 =$
5. $3 \times 9 + 2 \times 9 + 6 \times 9 =$
6. $2 \times 9 + 2 \times 9 + 1 \times 9 =$
7. $1 \times 9 + 3 \times 9 + 3 \times 9 =$
8. $2 \times 9 + 1 \times 9 + 3 \times 9 =$
9. $1 \times 9 + 1 \times 9 + 2 \times 9 =$
10. $2 \times 9 + 3 \times 9 + 3 \times 9 =$
11. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
12. $3 \times 8 + 3 \times 8 + 3 \times 8 =$
13. $2 \times 8 + 3 \times 8 + 2 \times 8 =$
14. $1 \times 8 + 1 \times 8 + 1 \times 8 =$
15. $3 \times 8 + 3 \times 8 + 4 \times 8 =$
16. $2 \times 8 + 3 \times 8 + 7 \times 8 =$
17. $1 \times 8 + 2 \times 8 + 1 \times 8 =$
18. $2 \times 8 + 1 \times 8 + 3 \times 8 =$
19. $3 \times 8 + 2 \times 8 + 4 \times 8 =$
20. $1 \times 8 + 2 \times 8 + 2 \times 8 =$
21. $2 \times 8 + 3 \times 8 + 3 \times 8 =$
22. $3 \times 8 + 5 \times 8 + 3 \times 8 =$
23. $4 \times 7 + 5 \times 7 + 3 \times 7 =$
24. $2 \times 7 + 3 \times 7 + 2 \times 7 =$
25. $3 \times 7 + 3 \times 7 + 5 \times 7 =$
26. $3 \times 7 + 3 \times 7 + 2 \times 7 =$
27. $1 \times 7 + 3 \times 7 + 2 \times 7 =$
28. $2 \times 7 + 3 \times 7 + 4 \times 7 =$
29. $2 \times 7 + 1 \times 7 + 2 \times 7 =$

30. $3 \times 7 + 5 \times 7 + 1 \times 7 =$

31. $3 \times 7 + 1 \times 7 + 5 \times 7 =$

32. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

33. $2 \times 7 + 3 \times 7 + 5 \times 7 =$

34. $3 \times 7 + 2 \times 7 + 4 \times 7 =$

SUBTRACTION.

(35)	(36)	(37)	(38)
725	984	609	927
614	723	102	16
---	---	---	---

(39)	(40)	(41)	(42)
346	828	774	514
5	716	363	13
---	---	---	---

(43)	(44)	(45)	(46)
675	544	476	373
613	322	133	253
---	---	---	---

(47)	(48)	(49)	(50)
246	527	327	440
135	6	116	140
---	---	---	---

LESSON LX.

1. How many inches in 7 feet? *Ans.*—There are 7×12 inches which are 84 inches.

2. How many quarts in 8 pecks?

3. I paid 18 cts. for a book, 16 cts. for some paper, and 9 cts. for an eraser; how much did I pay for all?

4. Kate had 14 apples and ate 6 of them; how many had she left?

5. How many oranges, at 6 cts. each, can be bought for 42 cts.?

6. If one bunch of beets cost 8 cts., how much will 9 bunches cost?

7. How many quarts in 7 gallons?

$$8. 9 \times 6 + 6 \times 4 = 78 \times 1. \quad 15. 7 \times 11 + 6 \times 6 =$$

$$9. 7 \times 8 + 6 \times 5 = \quad 16. 6 \times 7 + 5 \times 8 =$$

$$10. 9 \times 7 + 5 \times 4 = \quad 17. 8 \times 4 + 7 \times 5 =$$

$$11. 12 \times 5 + 7 \times 3 = \quad 18. 9 \times 6 + 6 \times 3 =$$

$$12. 9 \times 6 + 6 \times 4 = \quad 19. 7 \times 11 + 11 \times 2 =$$

$$13. 8 \times 7 + 7 \times 3 = \quad 20. 2 \times 12 + 7 \times 8 =$$

$$14. 6 \times 9 + 5 \times 5 =$$

LESSON LXI.

$$1. 9 \times 5 + 6 \times 3 = 63 \times 1. \quad 11. 10 \times 7 + 7 \times 6 =$$

$$2. 8 \times 7 + 5 \times 6 = \quad 12. 11 \times 6 + 8 \times 4 =$$

$$3. 5 \times 7 + 9 \times 4 = \quad 13. 8 \times 8 + 9 \times 5 =$$

$$4. 8 \times 3 + 7 \times 5 = \quad 14. 7 \times 9 + 8 \times 7 =$$

$$5. 9 \times 6 + 7 \times 7 = \quad 15. 6 \times 12 + 7 \times 5 =$$

$$6. 8 \times 8 + 6 \times 6 = \quad 16. 5 \times 11 + 11 \times 6 =$$

$$7. 7 \times 7 + 9 \times 4 = \quad 17. 9 \times 10 + 7 \times 6 =$$

$$8. 6 \times 11 + 7 \times 5 = \quad 18. 8 \times 9 + 6 \times 4 =$$

$$9. 12 \times 9 + 8 \times 7 = \quad 19. 7 \times 8 + 5 \times 10 =$$

$$10. 9 \times 5 + 5 \times 9 = \quad 20. 9 \times 4 + 5 \times 7 =$$

(21)	(22)	(23)	(24)	(25)
635	316	413	276	312
74	76	86	135	128
124	136	7	128	106
52	128	5	110	160
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)
119	202	576	135	115
189	222	83	6	76
191	220	126	8	184
111	22	5	514	33
—	—	—	—	—

(31)	(32)	(33)	(34)
376	576	316	275
76	35	76	161
6	114	56	44
136	141	96	33
—	—	—	—

LESSON LXII.

- $9 \times 5 + 8 \times 3 + 2 \times 2 = 73 \times 1.$
- $7 \times 6 + 6 \times 5 + 4 \times 2 =$
- $8 \times 7 + 5 \times 4 + 3 \times 2 =$
- $10 \times 6 + 7 \times 5 + 4 \times 3 =$
- $9 \times 4 + 8 \times 7 + 3 \times 1 =$
- $6 \times 8 + 7 \times 7 + 5 \times 2 =$
- $9 \times 5 + 8 \times 4 + 3 \times 3 =$
- $7 \times 6 + 6 \times 7 + 5 \times 3 =$

9. $9 \times 6 + 6 \times 6 + 1 \times 3 =$
 10. $7 \times 9 + 5 \times 8 + 4 \times 2 =$
 11. $8 \times 7 + 6 \times 4 + 3 \times 1 =$
 12. $9 \times 9 + 7 \times 5 + 3 \times 2 =$
 13. $7 \times 6 + 6 \times 7 + 3 \times 3 =$
 14. $5 \times 9 + 9 \times 7 + 1 \times 4 =$
 15. $4 \times 8 + 7 \times 2 + 2 \times 5 =$

SUBTRACTION.

(16)	(17)	(18)	(19)	(20)
376	954	854	416	544
125	723	722	314	323
---	---	---	---	---
(21)	(22)	(23)	(24)	(25)
675	809	514	446	365
671	301	512	324	65
---	---	---	---	---
(26)	(27)	(28)	(29)	(30)
514	330	514	376	418
114	320	413	4	118
---	---	---	---	---
(31)	(32)	(33)	(34)	(35)
372	514	376	728	518
212	413	215	613	114
---	---	---	---	---

LESSON LXIII.

1. $8 \times 8 + 7 \times 9 + 3 \times 3 = 136 \times 1.$
 2. $9 \times 4 + 8 \times 5 + 3 \times 2 =$

3. $7 \times 7 + 6 \times 5 + 4 \times 1 =$

4. $8 \times 9 + 3 \times 7 + 2 \times 5 =$

5. $9 \times 4 + 3 \times 3 + 7 \times 2 =$

6. $7 \times 7 + 5 \times 7 =$

17. CXCIX =

7. $9 \times 6 + 7 \times 8 =$

18. CCCXLVI =

8. $8 \times 6 + 5 \times 8 =$

19. CCLXXXIII =

9. $11 \times 7 + 6 \times 5 =$

20. CCCXXXIII =

10. $9 \times 7 + 7 \times 8 =$

21. 175 =

11. $8 \times 5 + 9 \times 4 =$

22. 263 =

12. $7 \times 6 + 8 \times 5 =$

23. 303 =

13. $9 \times 7 + 7 \times 8 =$

24. 111 =

14. $10 \times 7 + 6 \times 8 =$

25. 273 =

15. $9 \times 6 + 7 \times 5 =$

26. 390 =

16. CCLXVII =

(27)

(28)

(29)

(30)

336

225

246

318

184

146

38

165

125

38

152

27

64

135

76

141

LESSON LXIV.

1. $6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 = 44 \times 1.$

2. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 3 \times 1 =$

3. $10 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 + 5 \times 1 + 5 \times 1 =$

4. $7 \times 1 + 7 \times 1 + 8 \times 1 + 8 \times 1 + 9 \times 1 + 9 \times 1 + 10 \times 1 =$
5. $6 \times 1 + 8 \times 1 + 5 \times 1 + 9 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 =$
6. $5 \times 1 + 11 \times 1 + 5 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 =$
7. $12 \times 1 + 12 \times 1 + 11 \times 1 + 11 \times 1 + 6 \times 1 + 10 \times 1 + 10 \times 1 =$
8. $11 \times 1 + 11 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 =$
9. $10 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 =$
10. $10 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 5 \times 1 + 7 + 1 =$
11. $12 \times 1 + 6 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 9 \times 1 =$
12. $10 \times 1 + 6 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 =$
13. $9 \times 1 + 5 \times 1 + 10 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 =$
14. $7 \times 1 + 5 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 =$
15. $6 \times 1 + 8 \times 1 + 6 \times 1 + 8 \times 1 + 6 \times 1 + 8 \times 1 + 6 \times 1 =$
16. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$
17. $9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$

$$18. \quad 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$$

$$19. \quad 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$20. \quad 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$$

SUBTRACTION.

(21)	(22)	(23)	(24)	(25)
676	375	544	350	273
135	144	104	120	100
---	---	---	---	---

(26)	(27)	(28)	(29)	(30)
416	549	927	676	276
114	136	114	135	136
---	---	---	---	---

LESSON LXV.

1. If one orange cost 5 cts., how many oranges can be bought for 45 cts.? *Ans.*—9 oranges can be bought for 45 cts.; or 45 cts. will buy 9 oranges.

2. James paid 16 cts. for a book, and 23 cts. for some paper; how much did he pay for both?

3. How many months in 8 years?

4. George is 7 years old, how many months old is he?

5. James shot an arrow 53 feet; he sent a boy after it; how many feet would the boy have to go to get the arrow and bring it back to James?

- | | |
|---|-----------------------------------|
| 6. $9 \times 6 + 6 \times 3 = 72 \times 1.$ | 16. $8 \times 6 + 7 \times 2 =$ |
| 7. $7 \times 6 + 6 \times 8 =$ | 17. $9 \times 8 + 8 \times 5 =$ |
| 8. $9 \times 5 + 7 \times 4 =$ | 18. $7 \times 3 + 4 \times 12 =$ |
| 9. $7 \times 6 + 6 \times 8 =$ | 19. $11 \times 6 + 6 \times 5 =$ |
| 10. $8 \times 5 + 9 \times 3 =$ | 20. $8 \times 7 + 8 \times 6 =$ |
| 11. $7 \times 11 + 6 \times 5 =$ | 21. $9 \times 8 + 5 \times 5 =$ |
| 12. $2 \times 12 + 9 \times 6 =$ | 22. $12 \times 6 + 6 \times 3 =$ |
| 13. $8 \times 5 + 7 \times 8 =$ | 23. $6 \times 11 + 11 \times 5 =$ |
| 14. $7 \times 9 + 5 \times 5 =$ | 24. $7 \times 8 + 8 \times 6 =$ |
| 15. $9 \times 9 + 3 \times 7 =$ | 25. $6 \times 8 + 9 \times 6 =$ |

LESSON LXVI.

(1)	(2)	(3)	(4)	(5)
225	385	414	276	554
136	74	44	185	136
274	7	314	128	374
316	164	24	54	28
---	---	---	---	---
(6)	(7)	(8)	(9)	(10)
336	128	314	667	376
137	35	74	5	58
273	246	55	9	124
54	36	235	184	9
---	---	---	---	---
(11)	(12)	(13)	(14)	(15)
274	346	415	427	445
138	372	75	35	378
215	26	135	164	126
46	12	65	24	54
---	---	---	---	---

16. $6 \times 9 + 8 \times 4 = 86 \times 1$. 24. $8 \times 8 + 6 \times 6 =$
 17. $9 \times 6 + 5 \times 8 =$ 25. $9 \times 9 + 7 \times 4 =$
 18. $8 \times 7 + 6 \times 8 =$ 26. $12 \times 6 + 6 \times 5 =$
 19. $5 \times 9 + 9 \times 5 =$ 27. $9 \times 10 + 10 \times 4 =$
 20. $7 \times 6 + 6 \times 7 =$ 28. $5 \times 11 + 11 \times 5 =$
 21. $6 \times 11 + 7 \times 5 =$ 29. $8 \times 7 + 7 \times 7 =$
 22. $9 \times 8 + 7 \times 7 =$ 30. $9 \times 6 + 5 \times 7 =$
 23. $12 \times 6 + 6 \times 5 =$

LESSON LXVII.

1. $12 \times 8 + 4 \times 5 = 116 \times 1$. 11. $9 \times 7 + 7 \times 4 =$
 2. $9 \times 9 + 6 \times 5 =$ 12. $4 \times 11 + 11 \times 4 =$
 3. $8 \times 7 + 9 \times 6 =$ 13. $10 \times 7 + 7 \times 10 =$
 4. $9 \times 7 + 7 \times 4 =$ 14. $8 \times 7 + 7 \times 7 =$
 5. $8 \times 6 + 5 \times 6 =$ 15. $9 \times 6 + 6 \times 6 =$
 6. $9 \times 10 + 7 \times 3 =$ 16. $9 \times 9 + 8 \times 7 =$
 7. $10 \times 10 + 6 \times 6 =$ 17. $8 \times 11 + 11 \times 3 =$
 8. $11 \times 7 + 7 \times 5 =$ 18. $8 \times 7 + 2 \times 9 =$
 9. $6 \times 11 + 7 \times 6 =$ 19. $6 \times 12 + 12 \times 5 =$
 10. $7 \times 8 + 8 \times 5 =$ 20. $7 \times 5 + 5 \times 7 =$

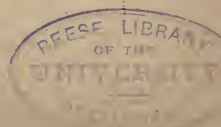
(21)	(22)	(23)	(24)	(25)
376	275	134	276	275
154	145	109	310	146
123	135	196	209	109
143	295	209	111	76
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)
346	427	567	376	254
37	96	27	27	13
126	137	128	9	134
147	34	54	124	66
---	---	---	---	---

(31)	(32)	(33)	(34)	(35)
376	427	276	346	416
64	96	136	27	76
134	136	256	154	136
94	276	196	35	25
---	---	---	---	---

LESSON LXVIII.

1. $3 \times 12 + 2 \times 12 + 3 \times 12 = 8 \times 12 = 96 \times 1.$
2. $2 \times 12 + 4 \times 12 + 4 \times 12 =$
3. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
4. $3 \times 12 + 2 \times 12 + 2 \times 12 =$
5. $2 \times 12 + 1 \times 12 + 2 \times 12 =$
6. $3 \times 12 + 6 \times 12 + 3 \times 12 =$
7. $1 \times 12 + 1 \times 12 + 2 \times 12 =$
8. $1 \times 12 + 3 \times 12 + 2 \times 12 =$
9. $3 \times 12 + 2 \times 12 + 6 \times 12 =$
10. $1 \times 12 + 3 \times 12 + 5 \times 12 =$
11. $2 \times 12 + 3 \times 12 + 2 \times 12 =$
12. $3 \times 9 + 4 \times 9 + 5 \times 9 =$
13. $1 \times 9 + 2 \times 9 + 3 \times 9 =$
14. $2 \times 9 + 3 \times 9 + 4 \times 9 =$



15. $3 \times 9 + 2 \times 9 + 2 \times 9 =$

16. $3 \times 9 + 4 \times 9 + 4 \times 9 =$

17. $1 \times 9 + 1 \times 9 + 1 \times 9 =$

18. $2 \times 9 + 4 \times 9 + 4 \times 9 =$

19. $1 \times 9 + 2 \times 9 + 1 \times 9 =$

20. $2 \times 9 + 4 \times 9 + 2 \times 9 =$

21. $3 \times 9 + 1 \times 9 + 1 \times 9 =$

22. $2 \times 9 + 5 \times 9 + 2 \times 9 =$

23. $3 \times 7 + 5 \times 7 + 2 \times 7 =$

24. $1 \times 7 + 1 \times 7 + 1 \times 7 =$

25. $3 \times 7 + 5 \times 7 + 3 \times 7 =$

26. $2 \times 7 + 1 \times 7 + 2 \times 7 =$

27. $3 \times 7 + 2 \times 7 + 2 \times 7 =$

28. $1 \times 7 + 3 \times 7 + 8 \times 7 =$

29. $2 \times 7 + 2 \times 7 + 4 \times 7 =$

30. $1 \times 7 + 2 \times 7 + 3 \times 7 =$

SUBTRACTION.

(31)	(32)	(33)	(34)	(35)
355	724	518	767	500
123	613	114	316	100
—	—	—	—	—

(36)	(37)	(38)	(39)	(40)
646	327	276	534	779
101	13	10	321	326
—	—	—	—	—

LESSON LXIX.

NOTE.—Teach the children to write numbers from 1,000 to 10,000.

- | | |
|---|----------------------------------|
| 1. $9 \times 6 + 5 \times 8 = 94 \times 1.$ | 11. $8 \times 6 + 6 \times 5 =$ |
| 2. $7 \times 8 + 4 \times 9 =$ | 12. $9 \times 3 + 10 \times 4 =$ |
| 3. $8 \times 9 + 6 \times 5 =$ | 13. $7 \times 6 + 6 \times 8 =$ |
| 4. $9 \times 9 + 4 \times 8 =$ | 14. $9 \times 7 + 8 \times 4 =$ |
| 5. $7 \times 6 + 6 \times 7 =$ | 15. $7 \times 6 + 6 \times 8 =$ |
| 6. $8 \times 9 + 5 \times 6 =$ | 16. $9 \times 5 + 4 \times 8 =$ |
| 7. $6 \times 11 + 4 \times 5 =$ | 17. $7 \times 6 + 5 \times 10 =$ |
| 8. $5 \times 7 + 8 \times 6 =$ | 18. $9 \times 3 + 8 \times 7 =$ |
| 9. $4 \times 12 + 12 \times 4 =$ | 19. $10 \times 7 + 6 \times 6 =$ |
| 10. $9 \times 8 + 7 \times 3 =$ | 20. $8 \times 6 + 5 \times 5 =$ |

(21)	(22)	(23)	(24)	(25)
448	514	376	374	376
326	44	154	152	154
16	134	138	54	13
144	64	52	138	124
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)	(31)
126	306	204	546	327	275
146	180	240	164	372	614
126	127	114	138	168	641
236	110	141	183	186	37
—	—	—	—	—	—

LESSON LXX.

1. $11 \times 1 + 11 \times 1 + 10 \times 1 + 10 \times 1 + 9 \times 1 + 9 \times 1 + 8 \times 1 = 68 \times 1.$

2. $9 \times 1 + 9 \times 1 + 9 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
3. $6 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 =$
4. $10 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 6 \times 1 =$
5. $5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 =$
6. $7 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$
7. $10 \times 1 + 10 \times 1 + 8 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 =$
8. $5 \times 1 + 9 \times 1 + 5 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$
9. $6 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 6 \times 1 + 5 \times 1 =$
10. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 3 \times 1 =$
11. $12 \times 1 + 12 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 =$
12. $13 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 =$
13. $12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
14. $7 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$
15. $8 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$

$$16. 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$$

$$17. 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$18. 3 \times 1 + 8 \times 1 + 8 \times 1 + 3 \times 1 + 8 \times 1 + 3 \times 1 + 8 \times 1 =$$

$$19. 14 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$20. 12 \times 1 + 12 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 =$$

(21)	(22)	(23)	(24)	(25)
515	341	616	276	135
76	186	154	136	76
124	427	145	127	128
35	135	155	55	74
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)
236	414	545	256	356
95	76	126	64	56
138	426	425	9	276
26	137	165	354	446
—	—	—	—	—

LESSON LXXI.

1. James spent 12 cts. for candy, 8 cts. for peanuts, 12 cts. for oranges, and 9 cts. for lemons; how much money did he spend for all?

Ans.—He spent 41 cts.

2. How much will a peck of beans cost at 8 cts. a quart?

3. How many feet in 4 yards?

4. How many feet in 9 yards?

5. How many inches in 2 yards?

6. George had 18 marbles and lost 9 of them; how many had he left?

7. There are 7 girls in each of 12 rows; how many girls in the 12 rows?

8. $10 \times 3 + 6 \times 9 = 84 \times 1$. 17. $6 \times 9 + 3 \times 7 =$

9. $8 \times 7 + 5 \times 5 =$ 18. $8 \times 5 + 3 \times 10 =$

10. $8 \times 8 + 6 \times 3 =$ 19. $7 \times 6 + 6 \times 4 =$

11. $9 \times 5 + 7 \times 4 =$ 20. $8 \times 3 + 9 \times 5 =$

12. $7 \times 6 + 9 \times 5 =$ 21. $7 \times 8 + 8 \times 3 =$

13. $11 \times 6 + 3 \times 9 =$ 22. $6 \times 8 + 7 \times 5 =$

14. $9 \times 5 + 7 \times 6 =$ 23. $9 \times 4 + 8 \times 7 =$

15. $8 \times 7 + 11 \times 3 =$ 24. $6 \times 8 + 3 \times 12 =$

16. $12 \times 6 + 5 \times 3 =$ 25. $9 \times 11 + 4 \times 6 =$

LESSON LXXII.

1. $7 \times 8 + 6 \times 8 + 3 \times 2 = 110 \times 1$.

2. $2 \times 5 + 7 \times 7 + 8 \times 1 =$

3. $3 \times 9 + 9 \times 3 + 8 \times 5 =$

4. $8 \times 7 + 6 \times 5 + 2 \times 12 =$

5. $2 \times 12 + 5 \times 9 + 8 \times 3 =$

6. $6 \times 5 + 6 \times 8 + 7 \times 2 =$

7. $9 \times 9 + 4 \times 9 + 3 \times 5 =$

8. $2 \times 12 + 8 \times 6 + 2 \times 2 =$

9. $8 \times 6 + 9 \times 4 + 8 \times 3 =$

10. $9 \times 5 + 7 \times 6 + 4 \times 4 =$

11. $7 \times 4 + 5 \times 9 + 4 \times 2 =$

12. $8 \times 6 + 3 \times 8 + 6 \times 2 =$

13. $9 \times 7 + 9 \times 3 + 7 \times 4 =$

14. $12 \times 4 + 3 \times 8 + 5 \times 2 =$

15. $3 \times 7 + 9 \times 5 + 4 \times 3 =$

16. $5 \times 5 + 6 \times 6 + 3 \times 3 =$

17. $11 \times 6 + 8 \times 5 + 4 \times 2 =$

18. $10 \times 7 + 6 \times 3 + 3 \times 6 =$

19. $8 \times 8 + 9 \times 5 + 2 \times 6 =$

20. $9 \times 3 + 7 \times 4 + 8 \times 1 =$

21. $3 \times 9 + 9 \times 5 + 4 \times 2 =$

22. $12 \times 6 + 7 \times 3 + 2 \times 5 =$

23. $5 \times 6 + 9 \times 6 + 3 \times 3 =$

24. $7 \times 7 + 7 \times 7 + 1 \times 1 =$

25. $9 \times 5 + 9 \times 6 + 3 \times 3 =$

$9 \times 7 = 63.$ $10 \times 10 =$ $12 \times 7 =$

$8 \times 5 =$ $7 \times 8 =$ $4 \times 12 =$

$12 \times 4 =$ $3 \times 9 =$ $8 \times 8 =$

$9 \times 3 =$ $8 \times 12 =$ $7 \times 6 =$

$11 \times 11 =$ $5 \times 7 =$ $5 \times 4 =$

$5 \times 7 =$ $9 \times 3 =$ $9 \times 3 =$

$6 \times 9 =$ $7 \times 6 =$ $12 \times 4 =$

$7 \times 6 =$ $6 \times 9 =$ $6 \times 11 =$

$8 \times 3 =$ $8 \times 7 =$ $7 \times 4 =$

$5 \times 7 =$ $5 \times 8 =$ $3 \times 9 =$

$$\begin{array}{lll}
 12 \times 9 = & 3 \times 12 = & 8 \times 6 = \\
 8 \times 3 = & 9 \times 4 = & 4 \times 3 = \\
 9 \times 6 = & 8 \times 12 = & 5 \times 11 = \\
 11 \times 10 = & 7 \times 3 = & 9 \times 4 =
 \end{array}$$

LESSON LXXIII.

- | | |
|--------------------|----------|
| 1. CCLXXXVIII=288. | 9. 276= |
| 2. CCCXLIV= | 10. 318= |
| 3. CXCIX= | 11. 263= |
| 4. CCLXVI= | 12. 202= |
| 5. CCCXIX= | 13. 220= |
| 6. LXVIII= | 14. 313= |
| 7. CCCXVII= | 15. 339= |
| 8. 145= | |

SUBTRACTION.

(16)	(17)	(18)	(19)	(20)
518	747	516	287	764
114	526	316	175	324
---	---	---	---	---

- | | |
|--|-----------------------------------|
| 21. $9 \times 9 + 8 \times 6 = 129 \times 1$. | 29. $9 \times 10 + 6 \times 3 =$ |
| 22. $8 \times 7 + 6 \times 6 =$ | 30. $11 \times 7 + 5 \times 6 =$ |
| 23. $7 \times 7 + 5 \times 4 =$ | 31. $9 \times 3 + 3 \times 9 =$ |
| 24. $9 \times 6 + 5 \times 5 =$ | 32. $11 \times 5 + 5 \times 11 =$ |
| 25. $10 \times 5 + 6 \times 4 =$ | 33. $6 \times 7 + 8 \times 4 =$ |
| 26. $8 \times 7 + 7 \times 5 =$ | 34. $10 \times 8 + 8 \times 3 =$ |
| 27. $9 \times 6 + 8 \times 4 =$ | 35. $9 \times 6 + 6 \times 5 =$ |
| 28. $7 \times 8 + 5 \times 9 =$ | 36. $5 \times 8 + 8 \times 6 =$ |

LESSON LXXIV.

- | | |
|---|-----------------------------------|
| 1. $8 \times 7 + 6 \times 5 = 86 \times 1.$ | 11. $5 \times 11 + 10 \times 6 =$ |
| 2. $9 \times 9 + 6 \times 6 =$ | 12. $7 \times 6 + 5 \times 5 =$ |
| 3. $8 \times 7 + 5 \times 4 =$ | 13. $9 \times 9 + 5 \times 6 =$ |
| 4. $9 \times 6 + 6 \times 3 =$ | 14. $11 \times 7 + 7 \times 4 =$ |
| 5. $7 \times 6 + 6 \times 7 =$ | 15. $12 \times 4 + 4 \times 10 =$ |
| 6. $6 \times 11 + 5 \times 9 =$ | 16. $8 \times 7 + 9 \times 3 =$ |
| 7. $5 \times 8 + 7 \times 4 =$ | 17. $9 \times 5 + 8 \times 4 =$ |
| 8. $9 \times 6 + 6 \times 5 =$ | 18. $4 \times 9 + 2 \times 10 =$ |
| 9. $8 \times 4 + 4 \times 8 =$ | 19. $8 \times 3 + 10 \times 3 =$ |
| 10. $12 \times 3 + 3 \times 11 =$ | 20. $6 \times 9 + 6 \times 6 =$ |

(21)	(22)	(23)	(24)	(25)
376	667	274	135	157
154	35	336	279	136
243	124	157	246	48
38	131	246	80	24
---	---	---	---	---

(26)	(27)	(28)	(29)	(30)
375	164	316	244	313
121	128	66	138	123
82	29	138	376	253
7	594	257	125	173
---	---	---	---	---

LESSON LXXV.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
246	802	986	727	348
135	701	454	316	121
---	---	---	---	---

(6)	(7)	(8)	(9)	(10)
789	999	889	314	525
123	456	789	112	313
—	—	—	—	—

(11)	(12)	(13)	(14)	(15)
727	937	555	276	992
516	216	321	135	301
—	—	—	—	—

ADDITION.

(16)	(17)	(18)	(19)	(20)
756	514	259	118	376
724	136	139	108	106
—	124	229	298	256
	156	359	158	146
	—	—	—	—

(21)	(22)	(23)	(24)	(25)
515	777	315	139	277
185	137	186	278	138
275	227	227	157	154
135	157	358	356	166
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)
346	864	323	416	175
271	138	96	146	126
185	27	156	277	138
96	152	274	357	427
—	—	—	—	—

LESSON LXXVI.

- $3 \times 11 + 5 \times 11 + 3 \times 11 = 11 \times 11 = 121 \times 1.$
- $2 \times 11 + 5 \times 11 + 5 \times 11 =$

3. $1 \times 11 + 5 \times 11 + 4 \times 11 =$
4. $2 \times 11 + 3 \times 11 + 4 \times 11 =$
5. $3 \times 11 + 2 \times 11 + 2 \times 11 =$
6. $3 \times 10 + 5 \times 10 + 4 \times 10 =$
7. $2 \times 10 + 2 \times 10 + 6 \times 10 =$
8. $3 \times 10 + 2 \times 10 + 6 \times 10 =$
9. $2 \times 9 + 3 \times 9 + 4 \times 9 =$
10. $3 \times 9 + 4 \times 9 + 2 \times 9 =$
11. $3 \times 9 + 5 \times 9 + 4 \times 9 =$
12. $2 \times 9 + 1 \times 9 + 2 \times 9 =$
13. $3 \times 9 + 1 \times 9 + 2 \times 9 =$
14. $3 \times 9 + 4 \times 9 + 5 \times 9 =$
15. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
16. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
17. $3 \times 9 + 1 \times 9 + 4 \times 9 =$
18. $3 \times 12 + 3 \times 12 + 6 \times 12 =$
19. $2 \times 12 + 3 \times 12 + 6 \times 12 =$
20. $2 \times 12 + 4 \times 12 + 4 \times 12 =$
21. $3 \times 8 + 5 \times 8 + 4 \times 8 =$
22. $2 \times 8 + 2 \times 8 + 1 \times 8 =$
23. $1 \times 8 + 3 \times 8 + 3 \times 8 =$
24. $3 \times 8 + 4 \times 8 + 4 \times 8 =$
25. $1 \times 8 + 1 \times 8 + 2 \times 8 =$
26. $2 \times 8 + 3 \times 8 + 5 \times 8 =$
27. $1 \times 8 + 2 \times 8 + 3 \times 8 =$
28. $2 \times 8 + 2 \times 8 + 4 \times 8 =$
29. $3 \times 8 + 3 \times 8 + 3 \times 8 =$

30. $5 \times 7 + 2 \times 7 + 3 \times 7 =$

31. $2 \times 7 + 2 \times 7 + 2 \times 7 =$

32. $1 \times 7 + 3 \times 7 + 5 \times 7 =$

33. $3 \times 7 + 2 \times 7 + 2 \times 7 =$

34. $1 \times 7 + 1 \times 7 + 3 \times 7 =$

35. $3 \times 7 + 2 \times 7 + 3 \times 7 =$

36. $2 \times 7 + 1 \times 7 + 9 \times 7 =$

37. $1 \times 6 + 3 \times 6 + 8 \times 6 =$

38. $2 \times 6 + 2 \times 6 + 2 \times 6 =$

39. $3 \times 6 + 4 \times 6 + 4 \times 6 =$

40. $1 \times 6 + 1 \times 6 + 3 \times 6 =$

41. $3 \times 6 + 3 \times 6 + 4 \times 6 =$

42. $2 \times 6 + 1 \times 6 + 1 \times 6 =$

43. $2 \times 6 + 3 \times 6 + 4 \times 6 =$

44. $3 \times 6 + 3 \times 6 + 2 \times 6 =$

45. $2 \times 6 + 4 \times 6 + 1 \times 6 =$

46. $1 \times 6 + 1 \times 6 + 1 \times 6 =$

47. $2 \times 5 + 4 \times 5 + 6 \times 5 =$

48. $3 \times 5 + 3 \times 5 + 4 \times 5 =$

49. $2 \times 5 + 5 \times 5 + 2 \times 5 =$

50. $1 \times 5 + 3 \times 5 + 3 \times 5 =$

(51)	(52)	(53)	(54)	(55)
676	518	257	224	313
138	186	138	138	97
75	52	66	256	166
43	143	127	97	97
---	---	---	---	---

LESSON LXXVII.

1. What will 9 oranges cost at 4 cts. apiece?

Ans.—They will cost 9×4 cts. = 36 cts.

2. At 3 cents each, how many lemons can be bought for 27 cts.?

3. How many days in 6 weeks?

4. There are 27 apples on one tree and 35 apples on another tree; how many apples on the two trees?

5. Jennie is 8 years old and her brother is 13 years old; how much younger is Jennie than her brother?

6. There are 18 books on one shelf, 12 books on another shelf, and 8 books on another shelf; how many books on the three shelves?

7. James ran up the street 27 feet, and George ran down the street 29 feet; how many feet did both run?

8. CCXXV =

20. 333 =

9. CCCLXVIII =

21. $9 \times 6 + 6 \times 3 =$

10. CXCIII =

22. $8 \times 7 + 7 \times 5 =$

11. CCCLXXXVI =

23. $9 \times 4 + 6 \times 11 =$

12. CXXXVII =

24. $7 \times 5 + 8 \times 3 =$

13. CCCXI =

25. $12 \times 7 + 5 \times 5 =$

14. 275 =

26. $8 \times 3 + 9 \times 7 =$

15. 110 =

27. $6 \times 10 + 7 \times 3 =$

16. 138 =

28. $8 \times 4 + 7 \times 7 =$

17. 356 =

29. $6 \times 6 + 5 \times 8 =$

18. 129 =

30. $7 \times 11 + 11 \times 3 =$

19. 303 =

LESSON LXXVIII.

(1)	(2)	(3)	(4)	(5)
246	157	316	517	6
137	129	66	27	28
273	34	156	147	155
26	445	26	7	274
141	15	136	167	30
---	---	---	---	---
(6)	(7)	(8)	(9)	(10)
273	337	515	726	123
156	258	75	35	456
124	164	136	184	178
315	3	46	126	190
166	127	128	134	12
---	---	---	---	---
(11)	(12)	(13)	(14)	(15)
246	155	356	404	224
180	126	127	110	136
135	138	134	167	929
279	124	9	138	30
13	433	126	59	56
---	---	---	---	---
(16)	(17)	(18)	(19)	(20)
356	135	515	276	135
77	279	125	136	279
136	136	64	54	66
144	66	133	327	5
66	75	52	96	84
---	---	---	---	---

LESSON LXXIX.

1. $9 \times 9 + 7 \times 7 = 130 \times 1$.
2. $10 \times 7 + 6 \times 8 =$
3. $7 \times 7 + 5 \times 9 =$
4. $8 \times 8 + 3 \times 11 =$
5. $12 \times 7 + 5 \times 5 =$
6. $6 \times 9 + 8 \times 7 =$
7. $9 \times 8 + 5 \times 6 =$
8. $5 \times 7 + 6 \times 8 =$
9. $9 \times 9 + 8 \times 8 =$
10. $10 \times 7 + 6 \times 5 =$
11. $9 \times 5 + 5 \times 9 =$
12. $8 \times 8 + 5 \times 5 =$
13. $12 \times 7 + 6 \times 4 =$
26. $7 \times 1 + 5 \times 1 + 6 \times 1 + 8 \times 1 + 10 \times 1 + 7 \times 1 =$
 43×1 .
27. $5 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 11 \times 1 + 9 \times 1 =$
28. $8 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 9 \times 1 + 8 \times 1 =$
29. $11 \times 1 + 11 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 +$
 $6 \times 1 =$
30. $9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 =$
31. $9 \times 1 + 6 \times 1 + 9 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 =$
32. $8 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 + 7 \times 1 + 7 \times 1 =$
33. $9 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 =$
34. $11 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 +$
 $10 \times 1 =$
35. $5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 + 8 \times 1 =$
14. $9 \times 9 + 5 \times 7 =$
15. $7 \times 6 + 5 \times 8 =$
16. CLXXIX =
17. CCXIV =
18. CCCIII =
19. CCXLVI =
20. CCCXXXI =
21. 175 =
22. 283 =
23. 116 =
24. 129 =
25. 301 =

36. $7 \times 1 + 8 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 =$
 37. $6 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 =$
 38. $5 \times 1 + 7 \times 1 + 7 \times 1 + 5 \times 1 + 10 \times 1 + 9 \times 1 =$
 39. $11 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 =$
 40. $9 \times 1 + 4 \times 1 + 8 \times 1 + 3 \times 1 + 10 \times 1 + 3 \times 1 =$

LESSON LXXX.

1. $10 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 + 8 \times 1 + 11 \times 1 =$
 $49 \times 1.$
 2. $9 \times 1 + 6 \times 1 + 9 \times 1 + 3 \times 1 + 8 \times 1 + 7 \times 1 =$
 3. $12 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 5 \times 1 + 9 \times 1 =$
 4. $11 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 =$
 5. $9 \times 1 + 3 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 =$
 6. $7 \times 1 + 7 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$
 7. $5 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 10 \times 1 =$
 8. $10 \times 1 + 6 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$
 9. $9 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 10 \times 1 =$
 10. $8 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
 11. $6 \times 1 + 5 \times 1 + 7 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 =$
 12. $9 \times 1 + 11 \times 1 + 6 \times 1 + 10 \times 1 + 7 \times 1 + 8 \times 1 =$
 13. $11 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 =$
 14. $11 \times 1 + 11 \times 1 + 11 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 =$
 15. $12 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 =$

(16)	(17)	(18)	(19)	(20)
518	355	256	255	135
164	156	75	138	135
37	127	136	126	135
286	138	58	55	135
55	156	144	74	135
---	---	---	---	---

(21)	(22)	(23)	(24)	(25)
160	135	300	275	227
106	153	156	64	136
127	246	183	38	155
172	264	135	57	277
55	16	26	49	138
—	—	—	—	—
(26)	(27)	(28)	(29)	(30)
138	516	516	307	276
156	186	138	170	355
275	174	128	156	128
144	146	155	49	109
109	35	24	38	190
—	—	—	—	—

LESSON LXXXI.

- $9 \times 5 + 3 \times 7 + 6 \times 2 = 78 \times 1.$
- $2 \times 8 + 7 \times 3 + 3 \times 3 =$
- $9 \times 7 + 6 \times 4 + 4 \times 2 =$
- $8 \times 5 + 5 \times 4 + 3 \times 2 =$
- $6 \times 6 + 5 \times 5 + 4 \times 4 =$
- $7 \times 3 + 6 \times 2 + 3 \times 1 =$
- $7 \times 7 + 5 \times 6 + 2 \times 2 =$
- $9 \times 4 + 4 \times 9 + 1 \times 5 =$
- $6 \times 8 + 5 \times 6 + 3 \times 3 =$
- $5 \times 10 + 6 \times 4 + 3 \times 2 =$
- $9 \times 4 + 3 \times 7 + 6 \times 2 =$
- $10 \times 6 + 7 \times 5 + 4 \times 3 =$
- $8 \times 7 + 3 \times 4 + 5 \times 3 =$

14. $7 \times 7 + 5 \times 9 + 3 \times 3 =$

15. $11 \times 4 + 4 \times 8 + 2 \times 2 =$

16. $6 \times 8 + 7 \times 5 + 5 \times 1 =$

17. $5 \times 11 + 3 \times 6 + 2 \times 5 =$

18. $4 \times 7 + 9 \times 5 + 6 \times 2 =$

19. $9 \times 8 + 7 \times 5 + 3 \times 4 =$

20. $7 \times 6 + 6 \times 6 + 7 \times 2 =$

SUBTRACTION.

(21)	(22)	(23)	(24)	(25)
667	545	726	327	416
324	301	314	116	300
—	—	—	—	—

(26)	(27)	(28)	(29)	(30)
955	515	766	118	355
327	314	354	116	243
—	—	—	—	—

LESSON LXXXII.

(1)	(2)	(3)	(4)	(5)	(6)
275	313	151	300	273	416
136	164	76	101	155	185
27	76	6	196	128	276
254	6	3	248	142	149
13	144	128	35	167	186
—	—	—	—	—	—
(7)	(8)	(9)	(10)	(11)	(12)
384	275	248	155	254	277
126	146	136	109	145	485
144	137	155	115	183	124
186	128	144	176	176	445
134	155	137	183	155	345
—	—	—	—	—	—

13. CCLXXXVIII=	20. 220=
14. CCCXLVII=	21. 101=
15. CVI=	22. 110=
16. CCÓIV=	23. 219=
17. CCXXII= .	24. 363=
18. CCCXIII=	25. 177=
19. 155=	

(26)	(27)	(28)	(29)	(30)
584	729	936	636	721
132	117	724	325	721
—	—	—	—	—

LESSON LXXXIII.

1. Kate wrote 7 words, of 6 letters each, on her slate; how many letters did she write?
Ans.—She wrote 7×6 letters which are 42 letters.

2. Lucy wrote 16 words on her slate, and then erased 7 of them; how many did she leave on her slate?

3. There are 9 rounds in each of 8 chairs; how many rounds in the 8 chairs?

4. A boy had 18 marbles and lost all but 10 of them; how many did he lose?

5. How many cents in one dime, and a quarter of a dollar?

6. How many cents in a “nickel,” one dime, and a three-cent piece?

7. How many months in 5 years?

8. George paid 5 cts. a quart for a peck of peas; how much did the peas cost him?

$$9. 12 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 = 53 \times 1.$$

$$10. 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$$

$$11. 11 \times 1 + 11 \times 1 + 9 \times 1 + 11 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$$

$$12. 8 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$13. 9 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 11 \times 1 + 9 \times 1 + 10 \times 1 =$$

$$14. 11 \times 1 + 5 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 =$$

$$15. 8 \times 1 + 7 \times 1 + 6 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$$

$$16. 7 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$$

$$17. 10 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 6 \times 1 =$$

$$18. 7 \times 1 + 6 \times 1 + 8 \times 1 + 3 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 =$$

$$19. 8 \times 1 + 8 \times 1 + 5 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 5 \times 1 =$$

$$20. 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$$

LESSON LXXXIV.

1. $3 \times 9 + 4 \times 9 + 3 \times 9 = 10 \times 9 = 90 \times 1.$
2. $4 \times 9 + 2 \times 9 + 3 \times 9 =$
3. $2 \times 9 + 3 \times 9 + 3 \times 9 =$
4. $3 \times 9 + 2 \times 9 + 2 \times 9 =$
5. $2 \times 9 + 1 \times 9 + 3 \times 9 =$
6. $1 \times 9 + 2 \times 9 + 2 \times 9 =$
7. $3 \times 12 + 4 \times 12 + 5 \times 12 =$
8. $2 \times 12 + 3 \times 12 + 6 \times 12 =$
9. $2 \times 12 + 4 \times 12 + 4 \times 12 =$
10. $2 \times 12 + 4 \times 12 + 3 \times 12 =$
11. $4 \times 12 + 2 \times 12 + 2 \times 12 =$
12. $1 \times 12 + 3 \times 12 + 3 \times 12 =$
13. $2 \times 12 + 3 \times 12 + 1 \times 12 =$
14. $1 \times 12 + 3 \times 12 + 1 \times 12 =$
15. $1 \times 12 + 1 \times 12 + 2 \times 12 =$
16. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
17. $3 \times 11 + 3 \times 11 + 6 \times 11 =$
18. $2 \times 11 + 7 \times 11 + 2 \times 11 =$
19. $3 \times 11 + 5 \times 11 + 2 \times 11 =$
20. $2 \times 11 + 3 \times 11 + 4 \times 11 =$
21. $2 \times 11 + 3 \times 11 + 3 \times 11 =$
22. $1 \times 11 + 4 \times 11 + 2 \times 11 =$
23. $2 \times 11 + 2 \times 11 + 2 \times 11 =$
24. $1 \times 11 + 1 \times 11 + 2 \times 11 =$
25. $2 \times 11 + 1 \times 11 + 2 \times 11 =$
26. $1 \times 11 + 1 \times 11 + 1 \times 11 =$

- | | |
|---------------------------------|----------------------------------|
| 5. $10 \times 6 + 5 \times 8 =$ | 13. $8 \times 8 + 7 \times 4 =$ |
| 6. $7 \times 9 + 6 \times 7 =$ | 14. $9 \times 3 + 10 \times 7 =$ |
| 7. $5 \times 9 + 8 \times 7 =$ | 15. $8 \times 5 + 5 \times 8 =$ |
| 8. $10 \times 9 + 7 \times 5 =$ | 16. $7 \times 7 + 6 \times 5 =$ |
| 9. $5 \times 7 + 9 \times 6 =$ | 17. $8 \times 6 + 5 \times 9 =$ |
| 10. $8 \times 8 + 8 \times 4 =$ | 18. $7 \times 9 + 6 \times 8 =$ |
| 11. $6 \times 9 + 7 \times 3 =$ | 19. $8 \times 8 + 7 \times 5 =$ |
| 12. $9 \times 7 + 5 \times 6 =$ | 20. $9 \times 4 + 8 \times 6 =$ |

(21)	(22)	(23)	(24)	(25)
658	518	275	313	212
134	77	138	186	154
76	326	197	154	89
93	94	66	75	37
9	138	154	36	16
---	---	---	---	---

(26)	(27)	(28)	(29)	(30)
313	345	512	115	524
185	127	76	151	66
9	177	138	76	138.
164	155	54	133	27
133	144	125	45	115
---	---	---	---	---

LESSON LXXXVI.

- $7 \times 7 + 3 \times 6 + 5 \times 2 = 77 \times 1.$
- $6 \times 5 + 8 \times 4 + 2 \times 3 =$
- $7 \times 7 + 5 \times 5 + 1 \times 6 =$
- $10 \times 4 + 3 \times 8 + 2 \times 5 =$



5. $9 \times 6 + 5 \times 7 + 3 \times 3 =$
6. $7 \times 11 + 6 \times 5 + 4 \times 4 =$
7. $8 \times 7 + 5 \times 9 + 6 \times 3 =$
8. $9 \times 7 + 3 \times 5 + 4 \times 4 =$
9. $5 \times 8 + 7 \times 3 + 6 \times 2 =$
10. $6 \times 6 + 4 \times 8 + 5 \times 3 =$
11. $9 \times 9 + 2 \times 6 + 2 \times 2 =$
12. $11 \times 3 + 3 \times 11 + 11 \times 3 =$
13. $12 \times 5 + 4 \times 4 + 3 \times 3 =$
14. $7 \times 6 + 5 \times 8 + 4 \times 2 =$
15. $9 \times 4 + 6 \times 6 + 3 \times 5 =$
16. $8 \times 4 + 9 \times 3 + 2 \times 2 =$
17. $7 \times 6 + 10 \times 4 + 5 \times 5 =$
18. $8 \times 7 + 7 \times 3 + 3 \times 4 =$
19. $9 \times 6 + 6 \times 5 + 3 \times 5 =$
20. $8 \times 7 + 10 \times 4 + 3 \times 3 =$
21. $11 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 = 49 \times 1.$
22. $9 \times 1 + 5 \times 1 + 9 \times 1 + 5 \times 1 + 9 \times 1 + 5 \times 1 + 9 \times 1 =$
23. $6 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 7 \times 1 =$
24. $5 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 3 \times 1 + 8 \times 1 =$
25. $11 \times 1 + 11 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$
26. $8 \times 1 + 8 \times 1 + 4 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 =$

$$27. 10 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 =$$

$$28. 13 \times 1 + 5 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 =$$

$$29. 8 \times 1 + 3 \times 1 + 7 \times 1 + 5 \times 1 + 6 \times 1 + 9 \times 1 + 3 \times 1 =$$

$$30. 10 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 + 10 \times 1 =$$

$$31. 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 11 \times 1 + 11 \times 1 =$$

$$32. 5 \times 1 + 10 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 7 \times 1 + 8 \times 1 =$$

LESSON LXXXVII.

(1)	(2)	(3)	(4)	(5)	(6)
346	415	326	276	516	336
124	96	184	138	134	186
155	138	175	155	128	146
278	27	124	274	175	176
163	153	345	138	116	196
---	---	---	---	---	---

(7)	(8)	(9)	(10)	(11)	(12)
215	335	123	246	116	444
55	446	456	189	118	444
218	77	87	137	119	444
46	88	9	155	117	444
137	9	12	54	115	444
---	---	---	---	---	---

13. $8 \times 7 + 3 \times 6 + 2 \times 5 = 84 \times 1.$

14. $9 \times 4 + 7 \times 4 + 6 \times 8 =$

15. $7 \times 7 + 5 \times 6 + 3 \times 3 =$

16. $10 \times 4 + 3 \times 5 + 2 \times 6 =$

17. $6 \times 5 + 4 \times 3 + 2 \times 1 =$

18. $10 \times 3 + 9 \times 2 + 12 \times 1 =$

19. $8 \times 5 + 5 \times 6 + 5 \times 2 =$

20. $6 \times 7 + 3 \times 11 + 4 \times 4 =$

21. James has 8 cts. and John has 3 times as many cents, how many cents has John?—*Ans.* John has 3×8 cts. which are 24 cts.

22. There are 12 cts. in each of 6 piles, how many cents in all?

23. If one chair has four legs, how many legs have 12 chairs?

24. There are five rows of seats in the room and 9 seats in each row; how many seats in the rooms?

25. If one sky-rocket cost 7 cts. what will 12 sky-rockets cost?

LESSON LXXXVIII.

1. $11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 = 51 \times 1.$

2. $11 \times 1 + 11 \times 1 + 10 \times 1 + 10 \times 1 + 9 \times 1 + 9 \times 1 =$

3. $12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$

4. $8 \times 1 + 11 \times 1 + 7 \times 1 + 10 \times 1 + 6 \times 1 + 11 \times 1 =$
5. $9 \times 1 + 7 \times 1 + 11 \times 1 + 8 \times 1 + 11 \times 1 + 12 \times 1 =$
6. $5 \times 1 + 9 \times 1 + 8 \times 1 + 6 \times 1 + 12 \times 1 + 6 \times 1 =$
7. $11 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 9 \times 1 + 7 \times 1 =$
8. $12 \times 1 + 12 \times 1 + 8 \times 1 + 7 \times 1 + 12 \times 1 + 11 \times 1 =$
9. $9 \times 1 + 6 \times 1 + 8 \times 1 + 11 \times 1 + 7 \times 1 + 10 \times 1 =$
10. $11 \times 1 + 8 \times 1 + 6 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$
11. $8 \times 1 + 8 \times 1 + 6 \times 1 + 6 \times 1 + 11 \times 1 + 12 \times 1 =$
12. $12 \times 1 + 7 \times 1 + 12 \times 1 + 6 \times 1 + 10 \times 1 + 10 \times 1 =$
13. $13 \times 1 + 14 \times 1 + 9 \times 1 + 6 \times 1 + 8 \times 1 + 9 \times 1 =$
14. $14 \times 1 + 14 \times 1 + 7 \times 1 + 8 \times 1 + 11 \times 1 + 7 \times 1 =$
15. $15 \times 1 + 15 \times 1 + 10 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$
16. $16 \times 1 + 16 \times 1 + 5 \times 1 + 9 \times 1 + 5 \times 1 + 10 \times 1 =$
17. $17 \times 1 + 16 \times 1 + 8 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 =$
18. $18 \times 1 + 14 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
19. $12 \times 1 + 16 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 8 \times 1 =$
20. $8 \times 1 + 7 \times 1 + 15 \times 1 + 15 \times 1 + 6 \times 1 + 11 \times 1 =$

21. 64=	31. XXV=
22. 87=	32. CLXXXIX=
23. 29=	33. CCLXVI=
24. 56=	34. CCCLXXIV=
25. 43=	35. CXLV=
26. 95=	36. CCL=
27. 72=	37. CCCXXXI=
28. 38=	38. CI=
29. 21=	39. CCII=
30. 19=	40. CCCIII=

LESSON LXXXIX.

NOTE.—Teach the pupils to write numbers from 10,000 to 20,000 inclusive.

(1)	(2)	(3)	(4)
1,081	2,006	3,030	1,826
1,250	1,816	1,861	180
8,006	1,201	275	1,920
151	1,010	1,486	2,510
39	376	725	1,341
-----	-----	-----	-----
(5)	(6)	(7)	(8)
2,000	1,876	4,500	3,510
1,800	2,500	1,800	1,867
3,501	1,008	1,080	2,518
184	2,500	1,008	1,675
2,599	1,005	1,285	865
-----	-----	-----	-----

9. $6 \times 8 + 7 \times 5 + 4 \times 3 = 95 \times 1.$
10. $2 \times 9 + 8 \times 6 + 3 \times 3 =$
11. $9 \times 9 + 6 \times 3 + 2 \times 2 =$
12. $8 \times 3 + 7 \times 7 + 1 \times 11 =$
13. $12 \times 12 + 3 \times 3 + 12 \times 1 =$
14. $6 \times 6 + 4 \times 5 + 2 \times 5 =$
15. $2 \times 3 + 8 \times 7 + 3 \times 5 =$
16. $4 \times 5 + 6 \times 6 + 5 \times 5 =$
17. $9 \times 7 + 5 \times 5 + 6 \times 1 =$
18. $8 \times 6 + 7 \times 2 + 7 \times 3 =$
19. $11 \times 11 + 8 \times 1 + 2 \times 5 =$
20. $10 \times 9 + 6 \times 4 + 9 \times 2 =$
21. $7 \times 7 + 3 \times 3 + 9 \times 3 =$
22. $6 \times 3 + 4 \times 4 + 2 \times 2 =$
23. $8 \times 12 + 6 \times 5 + 5 \times 5 =$
24. $7 \times 6 + 4 \times 8 + 6 \times 3 =$
25. $3 \times 3 + 7 \times 5 + 3 \times 3 =$
26. $2 \times 5 + 3 \times 4 + 12 \times 8 =$
27. $12 \times 7 + 2 \times 9 + 10 \times 3 =$
28. $3 \times 6 + 4 \times 4 + 2 \times 5 =$
29. $8 \times 5 + 8 \times 6 + 9 \times 5 =$
30. $9 \times 4 + 7 \times 5 + 10 \times 1 =$

LESSON XC.

(1)	(2)	(3)	(4)	(5)	(6)
3,256	1,516	2,567	3,065	2,595	1,156
2,715	1,278	3,167	1,755	1,706	2,676
3,462	3,629	1,207	2,110	3,055	1,356
1,755	2,596	1,507	3,065	1,164	1,406
2,516	1,717	1,317	1,376	2,002	3,009

SUBTRACTION.

(7)	(8)	(9)	(10)	(11)
3,765	4,456	7,518	6,554	5,567
2,154	3,120	1,316	3,121	3,254
-----	-----	-----	-----	-----

(12)	(13)	(14)	(15)
4,567	7,756	2,918	3,333
3,367	3,054	1,617	1,230
-----	-----	-----	-----

$$16. 5 \times 5 + 8 \times 3 + 7 \times 2 = 63 \times 1.$$

$$17. 6 \times 7 + 3 \times 5 + 3 \times 3 =$$

$$18. 9 \times 5 + 8 \times 2 + 4 \times 4 =$$

$$19. 11 \times 3 + 3 \times 11 + 3 \times 2 =$$

$$20. 7 \times 7 + 6 \times 3 + 4 \times 1 =$$

$$21. 8 \times 7 + 5 \times 5 + 3 \times 3 =$$

$$22. 10 \times 7 + 7 \times 4 + 4 \times 2 =$$

$$23. 8 \times 7 + 6 \times 5 + 3 \times 2 =$$

$$24. 9 \times 6 + 4 \times 6 + 5 \times 2 =$$

$$25. 5 \times 9 + 8 \times 7 + 6 \times 1 =$$

LESSON XCI.

1. James ran 13 feet up the walk and then ran back; how many feet did he run?—*Ans.* He ran 26 feet.

2. There are 12 panes of glass in each of five windows; how many panes of glass in all?

3. George ate 3 apples a day for seven days; how many apples did he eat?

4. I bought 3 Roman candles at 7 cts. each, and 2 sky-rockets at 6 cts. each; how much did I pay for all?

5. Carrie had 9 sticks of candy; she ate 4 of them; how many had she left?

$$6. 5 \times 8 + 6 \times 7 + 3 \times 3 =$$

$$7. 9 \times 5 + 8 \times 7 + 4 \times 2 =$$

$$8. 8 \times 7 + 3 \times 6 + 5 \times 3 =$$

$$9. 9 \times 4 + 4 \times 9 + 3 \times 2 =$$

$$10. 7 \times 8 + 5 \times 6 + 2 \times 4 =$$

$$11. 6 \times 7 + 5 \times 5 + 7 \times 2 =$$

$$12. 8 \times 5 + 7 \times 4 + 3 \times 3 =$$

$$13. 9 \times 6 + 3 \times 6 + 5 \times 3 =$$

$$14. 8 \times 8 + 3 \times 5 + 4 \times 2 =$$

$$15. 7 \times 5 + 8 \times 4 + 4 \times 4 =$$

$$16. 10 \times 5 + 5 \times 8 + 3 \times 3 =$$

$$17. 6 \times 7 + 5 \times 7 + 4 \times 3 =$$

$$18. 9 \times 3 + 3 \times 8 + 7 \times 2 =$$

$$19. 6 \times 5 + 5 \times 7 + 4 \times 5 =$$

$$20. 10 \times 7 + 5 \times 5 + 8 \times 1 =$$

$$21. 6 \times 7 + 7 \times 5 + 3 \times 7 =$$

$$22. 9 \times 4 + 4 \times 8 + 3 \times 3 =$$

$$23. 8 \times 10 + 3 \times 5 + 10 \times 2 =$$

$$24. 7 \times 6 + 6 \times 7 + 4 \times 4 =$$

$$25. 8 \times 5 + 9 \times 4 + 3 \times 5 =$$

LESSON XCII.

1. $3 \times 12 + 3 \times 12 + 2 \times 12 = 8 \times 12 = 96 \times 1.$
2. $2 \times 12 + 5 \times 12 + 2 \times 12 =$
3. $3 \times 12 + 2 \times 12 + 1 \times 12 =$
4. $3 \times 12 + 4 \times 12 + 2 \times 12 =$
5. $2 \times 12 + 1 \times 12 + 1 \times 12 =$
6. $2 \times 12 + 4 \times 12 + 6 \times 12 =$
7. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
8. $2 \times 12 + 4 \times 12 + 4 \times 12 =$
9. $1 \times 12 + 1 \times 12 + 2 \times 12 =$
10. $3 \times 12 + 3 \times 12 + 5 \times 12 =$
11. $1 \times 12 + 1 \times 12 + 10 \times 12 =$
12. $2 \times 11 + 3 \times 11 + 3 \times 11 =$
13. $1 \times 11 + 3 \times 11 + 1 \times 11 =$
14. $1 \times 11 + 3 \times 11 + 7 \times 11 =$
15. $1 \times 11 + 1 \times 11 + 1 \times 11 =$
16. $1 \times 11 + 7 \times 11 + 4 \times 11 =$
17. $2 \times 11 + 2 \times 11 + 2 \times 11 =$
18. $3 \times 11 + 4 \times 11 + 3 \times 11 =$
19. $2 \times 11 + 5 \times 11 + 2 \times 11 =$
20. $3 \times 11 + 5 \times 11 + 4 \times 11 =$
21. $1 \times 10 + 5 \times 10 + 6 \times 10 =$
22. $2 \times 10 + 3 \times 10 + 6 \times 10 =$
23. $2 \times 10 + 5 \times 10 + 3 \times 10 =$
24. $3 \times 10 + 3 \times 10 + 3 \times 10 =$
25. $2 \times 10 + 4 \times 10 + 2 \times 10 =$

26. $2 \times 10 + 3 \times 10 + 2 \times 10 =$

27. $2 \times 10 + 2 \times 10 + 2 \times 10 =$

28. $1 \times 10 + 2 \times 10 + 2 \times 10 =$

29. $2 \times 10 + 1 \times 10 + 1 \times 10 =$

30. $1 \times 10 + 1 \times 10 + 1 \times 10 =$

31. $3 \times 9 + 3 \times 9 + 3 \times 9 =$

32. $2 \times 9 + 3 \times 9 + 6 \times 9 =$

33. $3 \times 9 + 2 \times 9 + 2 \times 9 =$

34. $2 \times 9 + 2 \times 9 + 1 \times 9 =$

35. $1 \times 9 + 1 \times 9 + 1 \times 9 =$

36. $3 \times 9 + 3 \times 9 + 6 \times 9 =$

37. $2 \times 9 + 3 \times 9 + 5 \times 9 =$

38. $3 \times 9 + 3 \times 9 + 2 \times 9 =$

39. $1 \times 9 + 3 \times 9 + 2 \times 9 =$

40. $1 \times 9 + 1 \times 9 + 2 \times 9 =$

41. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

42. $2 \times 8 + 2 \times 8 + 2 \times 8 =$

43. $3 \times 8 + 3 \times 8 + 3 \times 8 =$

44. $4 \times 8 + 4 \times 8 + 4 \times 8 =$

45. $2 \times 8 + 2 \times 8 + 1 \times 8 =$

46. $3 \times 8 + 2 \times 8 + 3 \times 8 =$

47. $4 \times 8 + 4 \times 8 + 3 \times 8 =$

48. $1 \times 8 + 2 \times 8 + 1 \times 8 =$

49. $3 \times 8 + 2 \times 8 + 2 \times 8 =$

50. $2 \times 8 + 4 \times 8 + 4 \times 8 =$

51. $2 \times 7 + 3 \times 7 + 7 \times 7 =$

52. $3 \times 7 + 3 \times 7 + 1 \times 7 =$

53. $2 \times 7 + 3 \times 7 + 4 \times 7 =$

54. $1 \times 7 + 1 \times 7 + 3 \times 7 =$

55. $2 \times 7 + 3 \times 7 + 3 \times 7 =$

56. $2 \times 7 + 3 \times 7 + 5 \times 7 =$

57. $1 \times 7 + 3 \times 7 + 1 \times 7 =$

58. $2 \times 7 + 1 \times 7 + 3 \times 7 =$

59. $3 \times 7 + 3 \times 7 + 6 \times 7 =$

60. $1 \times 7 + 2 \times 7 + 8 \times 7 =$

LESSON XCIII.

NOTE.—Teach the pupils to write numbers from 20,000 to 100,000.

(1)	(2)	(3)	(4)	(5)	(6)
2,765	3,461	2,514	3,375	2,766	3,756
1,384	1,275	1,446	1,416	1,273	1,356
1,276	1,356	1,375	1,275	1,814	2,646
4,535	1,207	1,296	1,046	1,564	3,776

SUBTRACTION.

(7)	(8)	(9)	(10)	(11)
35,159	76,384	95,937	65,764	55,016
14,127	15,123	12,713	14,133	14,013

(12)	(13)	(14)	(15)	(16)
84,726	54,867	96,376	84,778	64,726
13,613	13,725	72,136	13,166	13,615

(17)	(18)	(19)	(20)
29,765	55,725	58,909	37,376
18,134	13,613	13,606	16,136
<u> </u>	<u> </u>	<u> </u>	<u> </u>

LESSON XCIV.

- $11 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 = 50 \times 1.$
- $13 \times 1 + 5 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 10 \times 1 =$
- $7 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 =$
- $8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 4 \times 1 =$
- $3 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 =$
- $7 \times 1 + 5 \times 1 + 8 \times 1 + 4 \times 1 + 9 \times 1 + 3 \times 1 + 7 \times 1 =$
- $6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 =$
- $9 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
- $3 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 =$
- $9 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 7 \times 1 + 9 \times 1 + 9 \times 1 =$
- $10 \times 1 + 5 \times 1 + 9 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 + 9 \times 1 =$

$$12. 9 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 5 \times 1 + 4 \times 1 + 7 \times 1 =$$

$$13. 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$$

$$14. 8 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$15. 7 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$$

$$16. 6 \times 1 + 7 \times 1 + 5 \times 1 + 5 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 =$$

$$17. 5 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 10 \times 1 =$$

$$18. 8 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$$

$$19. 5 \times 1 + 5 \times 1 + 5 \times 1 + 6 \times 1 + 6 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$20. 8 \times 1 + 8 \times 1 + 9 \times 1 + 9 \times 1 + 7 \times 1 + 7 \times 1 + 11 \times 1 =$$

$$21. 146 =$$

$$31. CXXI =$$

$$22. 127 =$$

$$32. CCXXXVIII =$$

$$23. 284 =$$

$$33. CLXV =$$

$$24. 135 =$$

$$34. CCCLXIV =$$

$$25. 326 =$$

$$35. CLXXXVI =$$

$$26. 153 =$$

$$36. CCXIX =$$

$$27. 278 =$$

$$37. CXVI =$$

$$28. 166 =$$

$$38. CCLXXIII =$$

$$29. 202 =$$

$$39. CCCLXI =$$

$$30. 135 =$$

$$40. CXCVII =$$

LESSON XCV.

1. $3 \times 11 + 4 \times 5 + 6 \times 2 = 65 \times 1.$
2. $7 \times 5 + 5 \times 7 + 3 \times 6 =$
3. $9 \times 4 + 7 \times 5 + 6 \times 3 =$
4. $10 \times 7 + 7 \times 6 + 5 \times 4 =$
5. $9 \times 5 + 7 \times 4 + 6 \times 6 =$
6. $8 \times 3 + 2 \times 7 + 5 \times 3 =$
7. $9 \times 6 + 3 \times 9 + 4 \times 4 =$
8. $11 \times 7 + 6 \times 6 + 5 \times 5 =$
9. $9 \times 9 + 6 \times 3 + 3 \times 3 =$
10. $5 \times 8 + 6 \times 5 + 7 \times 2 =$
11. $6 \times 6 + 3 \times 8 + 10 \times 2 =$
12. $12 \times 3 + 5 \times 7 + 8 \times 3 =$
13. $6 \times 7 + 5 \times 4 + 9 \times 3 =.$
14. $8 \times 5 + 7 \times 7 + 6 \times 3 =$
15. $3 \times 7 + 5 \times 5 + 8 \times 6 =$
16. $9 \times 7 + 6 \times 5 + 3 \times 4 =$
17. $2 \times 8 + 7 \times 6 + 9 \times 7 =$
18. $6 \times 3 + 3 \times 9 + 5 \times 5 =$
19. $9 \times 9 + 5 \times 5 + 4 \times 4 =$
20. $8 \times 7 + 7 \times 6 + 3 \times 8 =$
21. $3 \times 6 + 3 \times 6 + 3 \times 6 =$
22. $2 \times 6 + 3 \times 6 + 1 \times 6 =$
23. $1 \times 6 + 3 \times 6 + 6 \times 6 =$
24. $2 \times 6 + 1 \times 6 + 1 \times 6 =$
25. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
26. $3 \times 6 + 2 \times 6 + 3 \times 6 =$

27. $2 \times 6 + 2 \times 6 + 3 \times 6 =$

28. $3 \times 6 + 4 \times 6 + 5 \times 6 =$

29. $1 \times 6 + 2 \times 6 + 2 \times 6 =$

30. $3 \times 8 + 2 \times 8 + 4 \times 8 =$

31. $1 \times 8 + 3 \times 8 + 3 \times 8 =$

32. $2 \times 8 + 3 \times 8 + 7 \times 8 =$

33. $1 \times 8 + 5 \times 8 + 2 \times 8 =$

34. $3 \times 8 + 1 \times 8 + 2 \times 8 =$

35. $3 \times 8 + 5 \times 8 + 3 \times 8 =$

LESSON XCVI.

1. James paid 12 cts. for a book, 8 cts. for a slate and 6 cts. for an eraser; how much did he pay for all?—*Ans.* He paid 26 cts. for all.

2. If one book cost 8 cts., what will 12 books cost?

3. At 9 cts. each, what will 8 slates cost?

4. A boy sold 16 papers one day, 24 papers the next day, and 17 papers the next day; how many papers did he sell during the three days?

5. If seven boys have 12 marbles each, how many marbles have they all?

6. $3 \times 9 + 1 \times 9 + 1 \times 9 = 5 \times 9 = 45 \times 1.$

7. $1 \times 9 + 3 \times 9 + 5 \times 9 =$

8. $2 \times 9 + 3 \times 9 + 2 \times 9 =$

9. $1 \times 9 + 1 \times 9 + 1 \times 9 =$

10. $3 \times 9 + 4 \times 9 + 4 \times 9 =$

11. $1 \times 9 + 2 \times 9 + 1 \times 9 =$
12. $2 \times 9 + 2 \times 9 + 2 \times 9 =$
13. $3 \times 9 + 2 \times 9 + 3 \times 9 =$
14. $2 \times 9 + 3 \times 9 + 5 \times 9 =$
15. $4 \times 9 + 4 \times 9 + 4 \times 9 =$
16. $1 \times 9 + 3 \times 9 + 6 \times 9 =$
17. $3 \times 10 + 4 \times 10 + 4 \times 10 =$
18. $4 \times 10 + 3 \times 10 + 3 \times 10 =$
19. $3 \times 10 + 4 \times 10 + 5 \times 10 =$
20. $1 \times 11 + 2 \times 11 + 3 \times 11 =$
21. $2 \times 11 + 3 \times 11 + 4 \times 11 =$
22. $3 \times 11 + 4 \times 11 + 5 \times 11 =$
23. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
24. $3 \times 11 + 4 \times 11 + 4 \times 11 =$
25. $2 \times 11 + 3 \times 11 + 1 \times 11 =$
26. $3 \times 12 + 3 \times 12 + 3 \times 12 =$
27. $4 \times 12 + 4 \times 12 + 4 \times 12 =$
28. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
29. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
30. $2 \times 12 + 3 \times 12 + 6 \times 12 =$
31. $1 \times 12 + 1 \times 12 + 2 \times 12 =$
32. $3 \times 12 + 3 \times 12 + 2 \times 12 =$
33. $1 \times 12 + 3 \times 12 + 1 \times 12 =$
34. $3 \times 12 + 3 \times 12 + 4 \times 12 =$
35. $3 \times 12 + 1 \times 12 + 3 \times 12 =$
36. $2 \times 8 + 2 \times 8 + 1 \times 8 =$
37. $1 \times 8 + 1 \times 8 + 2 \times 8 =$

38. $3 \times 8 + 1 \times 8 + 4 \times 8 =$

39. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

40. $2 \times 8 + 1 \times 8 + 3 \times 8 =$

LESSON XCVII.

(1)	(2)	(3)	(4)	(5)	(6)
27,643	45,434	31,376	54,733	21,212	17,255
15,129	12,776	15,184	26	13,867	26,736
12,434	13,504	2,733	13,182	3,555	355
22,376	33,596	24,618	22,735	21,746	18,274
13,855	7,215	755	3,146	313	1,164
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
(7)	(8)	(9)	(10)	(11)	(12)
35,124	25,737	35,346	358	35,186	42,285
13,762	18,166	726	1,468	724	9,873
254	365	1,366	27,118	3,294	766
12,918	2,738	24,516	2,538	12,736	95
356	515	276	24,678	53,273	8
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

SUBTRACTION.

(13)	(14)	(15)
33,765	27,667	59,676
12,413	14,324	18,125
<hr/>	<hr/>	<hr/>

LESSON XCVIII.

- $7 \times 7 + 6 \times 5 + 3 \times 3 = 88 \times 1.$
- $9 \times 8 + 7 \times 6 + 2 \times 3 =$
- $8 \times 8 + 6 \times 6 + 2 \times 2 =$

4. $5 \times 7 + 7 \times 5 + 3 \times 4 =$
5. $6 \times 9 + 8 \times 4 + 5 \times 2 =$
6. $7 \times 7 + 6 \times 6 + 3 \times 3 =$
7. $9 \times 8 + 5 \times 5 + 2 \times 3 =$
8. $6 \times 6 + 7 \times 7 + 3 \times 4 =$
9. $10 \times 7 + 6 \times 4 + 2 \times 5 =$
10. $8 \times 9 + 5 \times 7 + 3 \times 2 =$
11. $12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 = 57 \times 1.$
12. $10 \times 1 + 11 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 =$
13. $11 \times 1 + 12 \times 1 + 11 \times 1 + 6 \times 1 + 10 \times 1 + 10 \times 1 =$
14. $12 \times 1 + 12 \times 1 + 9 \times 1 + 10 \times 1 + 7 \times 1 + 11 \times 1 =$
15. $9 \times 1 + 8 \times 1 + 10 \times 1 + 11 \times 1 + 10 \times 1 + 6 \times 1 =$
16. $11 \times 1 + 10 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 =$
17. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$
18. $9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$
19. $10 \times 1 + 10 \times 1 + 10 \times 1 + 10 \times 1 + 10 \times 1 + 10 \times 1 =$
20. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
21. $11 \times 1 + 11 \times 1 + 10 \times 1 + 10 \times 1 + 9 \times 1 + 9 \times 1 =$
22. $8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 =$
23. $9 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$

$$24. 10 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 11 \times 1 + 7 \times 1 =$$

$$25. 8 \times 1 + 12 \times 1 + 8 \times 1 + 12 \times 1 + 8 \times 1 + 12 \times 1 =$$

LESSON XCIX.

$$1. 9 \times 5 + 5 \times 9 + 3 \times 4 = 102 \times 1.$$

$$2. 8 \times 6 + 7 \times 5 + 3 \times 3 =$$

$$3. 10 \times 7 + 8 \times 6 + 2 \times 3 =$$

$$4. 9 \times 5 + 8 \times 8 + 3 \times 3 =$$

$$5. 7 \times 11 + 6 \times 7 + 2 \times 2 =$$

$$6. 8 \times 7 + 7 \times 8 + 3 \times 1 =$$

$$7. 9 \times 7 + 11 \times 3 + 1 \times 8 =$$

$$8. 8 \times 5 + 6 \times 7 + 5 \times 2 =$$

$$9. 9 \times 9 + 6 \times 6 + 2 \times 2 =$$

$$10. 8 \times 7 + 7 \times 5 + 3 \times 3 =$$

11. James has 12 cts. and Mary has 8 times as many cents; how many cents has Mary?—*Ans.* Mary has 8×12 cts. which are 96 cts.

12. George had 18 marbles and lost 7 of them; how many had he left?

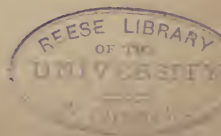
13. There are 7 rows of trees in an orchard, and 9 trees in each row; how many trees in the orchard?

14. Lucy bought 3 quarts of peanuts at 10 cts. per quart, and 4 ounces of candy at 3 cts. per ounce; how much money did she spend?

15. A boy ran up the walk 16 feet, and then ran back ; how many feet did he run ?

LESSON C.

1. $7 \times 12 + 2 \times 12 + 3 \times 12 = 12 \times 12 = 144 \times 1.$
2. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
3. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
4. $2 \times 12 + 3 \times 12 + 4 \times 12 =$
5. $1 \times 12 + 5 \times 12 + 1 \times 12 =$
6. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
7. $2 \times 11 + 2 \times 11 + 8 \times 11 =$
8. $1 \times 11 + 1 \times 11 + 9 \times 11 =$
9. $5 \times 10 + 4 \times 10 + 3 \times 10 =$
10. $3 \times 10 + 2 \times 10 + 1 \times 10 =$
11. $4 \times 10 + 3 \times 10 + 2 \times 10 =$
12. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
13. $2 \times 9 + 2 \times 9 + 1 \times 9 =$
14. $1 \times 9 + 1 \times 9 + 5 \times 9 =$
15. $2 \times 9 + 1 \times 9 + 6 \times 9 =$
16. $1 \times 9 + 1 \times 9 + 9 \times 9 =$
17. $2 \times 9 + 1 \times 9 + 1 \times 9 =$
18. $2 \times 9 + 1 \times 9 + 3 \times 9 =$
19. $1 \times 9 + 1 \times 9 + 6 \times 9 =$
20. $2 \times 9 + 1 \times 9 + 7 \times 9 =$
21. $1 \times 9 + 1 \times 9 + 10 \times 9 =$
22. $2 \times 8 + 1 \times 8 + 1 \times 8 =$
23. $3 \times 8 + 1 \times 8 + 5 \times 8 =$



24. $2 \times 8 + 1 \times 8 + 5 \times 8 =$
25. $6 \times 7 + 2 \times 7 + 2 \times 7 =$
26. $1 \times 7 + 2 \times 7 + 9 \times 7 =$
27. $2 \times 7 + 1 \times 7 + 5 \times 7 =$
28. $1 \times 6 + 3 \times 6 + 3 \times 6 =$
29. $2 \times 6 + 1 \times 6 + 3 \times 6 =$
30. $3 \times 6 + 2 \times 6 + 5 \times 6 =$
31. $1 \times 6 + 2 \times 6 + 9 \times 6 =$
32. $2 \times 5 + 2 \times 5 + 3 \times 5 =$
33. $1 \times 5 + 2 \times 5 + 7 \times 5 =$
34. $3 \times 5 + 4 \times 5 + 2 \times 5 =$
35. $7 \times 6 + 3 \times 8 + 9 \times 5 =$
36. $4 \times 8 + 8 \times 6 + 3 \times 6 =$
37. $7 \times 9 + 6 \times 6 + 4 \times 4 =$
38. $5 \times 11 + 11 \times 5 + 2 \times 3 =$
39. $11 \times 6 + 3 \times 8 + 4 \times 4 =$
40. $5 \times 9 + 5 \times 5 + 3 \times 7 =$
41. $9 \times 6 + 6 \times 5 + 7 \times 3 =$
42. $9 \times 8 + 7 \times 6 + 5 \times 5 =$
43. $8 \times 11 + 3 \times 11 + 5 \times 3 =$
44. $10 \times 3 + 3 \times 12 + 4 \times 4 =$

LESSON CI.

1. $3 \times 12 + 4 \times 12 + 5 \times 12 = 12 \times 12 = 144 \times 1.$
2. $3 \times 12 + 3 \times 12 + 3 \times 12 =$
3. $2 \times 12 + 5 \times 12 + 4 \times 12 =$
4. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
5. $3 \times 12 + 4 \times 12 + 3 \times 12 =$
6. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
7. $3 \times 12 + 4 \times 12 + 3 \times 12 =$
8. $2 \times 12 + 1 \times 12 + 2 \times 12 =$
9. $3 \times 12 + 2 \times 12 + 3 \times 12 =$
10. $2 \times 12 + 3 \times 12 + 2 \times 12 =$
11. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
12. $3 \times 11 + 3 \times 11 + 3 \times 11 =$
13. $2 \times 11 + 3 \times 11 + 7 \times 11 =$
14. $1 \times 11 + 3 \times 11 + 4 \times 11 =$
15. $4 \times 11 + 4 \times 11 + 3 \times 11 =$
16. $3 \times 11 + 3 \times 11 + 4 \times 11 =$
17. $2 \times 10 + 3 \times 10 + 6 \times 10 =$
18. $3 \times 10 + 3 \times 10 + 6 \times 10 =$
19. $3 \times 9 + 4 \times 9 + 2 \times 9 =$
20. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
21. $3 \times 9 + 5 \times 9 + 3 \times 9 =$
22. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
23. $1 \times 9 + 2 \times 9 + 2 \times 9 =$
24. $3 \times 9 + 6 \times 9 + 3 \times 9 =$
25. $2 \times 9 + 3 \times 9 + 5 \times 9 =$
26. $3 \times 9 + 2 \times 9 + 3 \times 9 =$

27. $2 \times 9 + 1 \times 9 + 3 \times 9 =$

28. $1 \times 9 + 2 \times 9 + 1 \times 9 =$

29. $3 \times 8 + 2 \times 8 + 1 \times 8 =$

30. $3 \times 8 + 3 \times 8 + 4 \times 8 =$

31. $2 \times 8 + 4 \times 8 + 2 \times 8 =$

32. $1 \times 8 + 2 \times 8 + 1 \times 8 =$

33. $4 \times 8 + 4 \times 8 + 4 \times 8 =$

34. $3 \times 8 + 2 \times 8 + 4 \times 8 =$

35. $2 \times 8 + 3 \times 8 + 2 \times 8 =$

36. $3 \times 8 + 1 \times 8 + 1 \times 8 =$

37. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

38. $2 \times 8 + 5 \times 8 + 4 \times 8 =$

39. $3 \times 7 + 5 \times 7 + 4 \times 7 =$

40. $2 \times 7 + 3 \times 7 + 6 \times 7 =$

(41)	(42)	(43)	(44)	(45)
37,625	23,356	57,276	27,356	3,354
8,173	9,275	946	356	12,726
12,154	3,864	3,136	35,417	35,187
2,345	376	12,326	34,163	3,662
14,456	35	256	2,562	15,276

LESSON CII.

1. $2 \times 7 + 3 \times 7 + 2 \times 7 = 7 \times 7 = 49 \times 1.$

2. $3 \times 7 + 2 \times 7 + 5 \times 7 =$

3. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

4. $3 \times 7 + 3 \times 7 + 5 \times 7 =$

5. $2 \times 7 + 1 \times 7 + 2 \times 7 =$

6. $3 \times 7 + 1 \times 7 + 4 \times 7 =$
7. $1 \times 7 + 1 \times 7 + 1 \times 7 =$
8. $3 \times 7 + 2 \times 7 + 7 \times 7 =$
9. $1 \times 7 + 3 \times 7 + 5 \times 7 =$
10. $2 \times 7 + 2 \times 7 + 1 \times 7 =$
11. $1 \times 7 + 3 \times 7 + 2 \times 7 =$
12. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
13. $2 \times 6 + 2 \times 6 + 2 \times 6 =$
14. $3 \times 6 + 3 \times 6 + 3 \times 6 =$
15. $4 \times 6 + 4 \times 6 + 4 \times 6 =$
16. $2 \times 6 + 1 \times 6 + 1 \times 6 =$
17. $3 \times 6 + 2 \times 6 + 2 \times 6 =$
18. $2 \times 6 + 2 \times 6 + 6 \times 6 =$
19. $3 \times 6 + 1 \times 6 + 1 \times 6 =$
20. $2 \times 6 + 3 \times 6 + 3 \times 6 =$
21. $3 \times 6 + 3 \times 6 + 5 \times 6 =$
22. $2 \times 5 + 1 \times 5 + 2 \times 5 =$
23. $3 \times 5 + 4 \times 5 + 3 \times 5 =$
24. $1 \times 5 + 1 \times 5 + 4 \times 5 =$
25. $2 \times 5 + 5 \times 5 + 4 \times 5 =$
26. $3 \times 5 + 1 \times 5 + 3 \times 5 =$
27. $1 \times 5 + 4 \times 5 + 7 \times 5 =$
28. $1 \times 5 + 1 \times 5 + 2 \times 5 =$
29. $3 \times 5 + 2 \times 5 + 3 \times 5 =$
30. $2 \times 5 + 3 \times 5 + 4 \times 5 =$
31. $2 \times 5 + 2 \times 5 + 3 \times 5 =$

(32)	(33)	(34)	(35)
26,416	35,165	40,004	37,276
18,375	815	40,040	676
214	20,006	40,400	54,318
64	3,725	4,444	296
9	95	4,544	58

36. $2 \times a + 3 \times a + 5 \times a =$

37. $6 \times a + 4 \times a + 3 \times a =$

38. $4 \times a + 3 \times a + 3 \times a =$

39. $5 \times b + 6 \times b + 4 \times b =$

40. $7 \times b + 5 \times b + 8 \times b =$

41. $6 \times b + 8 \times b + 7 \times b =$

42. $5 \times x + 7 \times x + 6 \times x =$

43. $6 \times x + 3 \times x + 7 \times x =$

44. $4 \times x + 9 \times x + 8 \times x =$

45. $8 \times x + 7 \times x + 5 \times x =$

LESSON CIII.

NOTE.—The children are to be taught to make figures from 100,000 to 1,000,000.

1. $7 \times 9 + 8 \times 6 + 5 \times 3 = 126 \times 1.$

2. $9 \times 9 + 6 \times 6 + 3 \times 3 =$

3. $8 \times 11 + 9 \times 5 + 3 \times 2 =$

4. $10 \times 8 + 7 \times 6 + 4 \times 3 =$

5. $9 \times 7 + 7 \times 7 + 2 \times 2 =$

6. $8 \times 8 + 6 \times 6 + 4 \times 2 =$

7. $7 \times 11 + 7 \times 5 + 5 \times 2 =$

8. $9 \times 8 + 6 \times 7 + 3 \times 2 =$
 9. $6 \times 11 + 7 \times 11 + 2 \times 2 =$
 10. $7 \times 7 + 6 \times 7 + 5 \times 3 =$
 11. $8 \times 8 + 5 \times 5 + 4 \times 4 =$
 12. $9 \times 6 + 6 \times 5 + 3 \times 3 =$
 13. $11 \times 7 + 5 \times 8 + 2 \times 4 =$
 14. $8 \times 11 + 8 \times 5 + 3 \times 4 =$
 15. $7 \times 7 + 6 \times 6 + 5 \times 5 =$
 16. 376 = 21. CCXCVI =
 17. 118 = 22. CLXIV =
 18. 202 = 23. CCCLXXXIX =
 19. 445 = 24. CCLXIII =
 20. 127 = 25. CXIX =

(26)	(27)	(28)	(29)	(30)
37,676	55,876	580,968	76,986	83,818
16,626	13,325	130,154	36,985	81,116

LESSON CIV.

1. $11 \times 1 + 11 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 4 \times 1 = 52 \times 1.$
 2. $10 \times 1 + 8 \times 1 + 11 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 11 \times 1 =$
 3. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$
 4. $10 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 5 \times 1 =$

5. $6 \times 1 + 8 \times 1 + 5 \times 1 + 9 \times 1 + 11 \times 1 + 7 \times 1 + 10 \times 1 =$
6. $8 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 =$
7. $11 \times 1 + 10 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$
8. $9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 + 6 \times 1 =$
9. $11 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 =$
10. $10 \times 1 + 9 \times 1 + 7 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 + 10 \times 1 =$
11. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 11 \times 1 =$
12. $12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
13. $11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
14. $12 \times 1 + 12 \times 1 + 12 \times 1 + 13 \times 1 + 6 \times 1 + 7 \times 1 + 11 \times 1 =$
15. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 + 7 \times 1 =$
16. $12 \times 1 + 12 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 10 \times 1 + 10 \times 1 =$
17. $11 \times 1 + 11 \times 1 + 11 \times 1 + 8 \times 1 + 11 \times 1 + 7 \times 1 + 3 \times 1 =$
18. $9 \times 1 + 10 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$

$$19. \quad 12 \times 1 + 8 \times 1 + 6 \times 1 + 11 \times 1 + 10 \times 1 + 5 \times 1 \\ + 10 \times 1 =$$

$$20. \quad 11 \times 1 + 11 \times 1 + 10 \times 1 + 10 \times 1 + 9 \times 1 + 9 \times 1 \\ + 3 \times 1 =$$

21. John bought 8 sticks of chocolate at 5 cts. per stick, and paid for them with a 50 cent piece; how much change should he receive? *Ans.*— He should receive 10 cts. in change.

22. A boy ate 6 apples one day, 5 apples the next day, 7 apples the next day, and 6 apples the next day; how many apples did he eat?

23. When candy is 6 cts. per ounce, how much will 7 ounces cost?

LESSON CV.

(1)	(2)	(3)	(4)	(5)
37,246	45,145	55,116	12,876	33,333
13,875	767	554	13,516	5,185
24	3,765	3,545	276	22,222
24,416	24,154	24,376	64	654
376	76	25	9	37
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
(6)	(7)	(8)	(9)	(10)
24,184	22,876	31,116	24,838	21,864
916	16,325	276	56	3,924
37	95	3,546	13,375	814
33,512	12,725	21,416	44	94
75	13,416	12,336	12,837	4
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

SUBTRACTION.

(11)	(12)	(13)	(14)	(15)
55,764	67,676	59,876	59,897	67,617
13,323	16,346	24,726	18,264	13,514
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
(16)	(17)	(18)	(19)	(20)
77,787	58,584	98,898	64,676	44,374
13,267	16,273	77,327	32,325	32,124
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

21. $9 \times x + 3 \times x + 5 \times x =$

22. $6 \times x + 7 \times x + 8 \times x =$

23. $11 \times x + 12 \times x + 3 \times x =$

24. $5 \times a + 7 \times a + 11 \times a =$

25. $6 \times a + 10 \times a + 5 \times a =$

LESSON CVI.

- $3 \times 5 + 3 \times 5 + 6 \times 5 = 12 \times 5 = 60 \times 1.$
- $2 \times 5 + 3 \times 5 + 2 \times 5 =$
- $3 \times 5 + 1 \times 5 + 1 \times 5 =$
- $1 \times 5 + 4 \times 5 + 3 \times 5 =$
- $1 \times 5 + 1 \times 5 + 1 \times 5 =$
- $2 \times 5 + 1 \times 5 + 6 \times 5 =$
- $1 \times 5 + 1 \times 5 + 2 \times 5 =$
- $2 \times 5 + 3 \times 5 + 4 \times 5 =$
- $1 \times 5 + 2 \times 5 + 3 \times 5 =$
- $2 \times 5 + 2 \times 5 + 4 \times 5 =$
- $3 \times 4 + 1 \times 4 + 1 \times 4 =$
- $1 \times 4 + 3 \times 4 + 4 \times 4 =$

13. $2 \times 4 + 2 \times 4 + 5 \times 4 =$
14. $1 \times 4 + 1 \times 4 + 1 \times 4 =$
15. $2 \times 4 + 3 \times 4 + 7 \times 4 =$
16. $3 \times 4 + 2 \times 4 + 4 \times 4 =$
17. $1 \times 4 + 1 \times 4 + 2 \times 4 =$
18. $3 \times 4 + 3 \times 4 + 2 \times 4 =$
19. $4 \times 4 + 5 \times 4 + 2 \times 4 =$
20. $2 \times 4 + 2 \times 4 + 3 \times 4 =$
21. $1 \times 4 + 2 \times 4 + 3 \times 4 =$
22. $2 \times 3 + 2 \times 3 + 2 \times 3 =$
23. $1 \times 3 + 1 \times 3 + 1 \times 3 =$
24. $3 \times 3 + 3 \times 3 + 3 \times 3 =$
25. $4 \times 3 + 4 \times 3 + 4 \times 3 =$
26. $1 \times 3 + 1 \times 3 + 4 \times 3 =$
27. $2 \times 3 + 2 \times 3 + 5 \times 3 =$
28. $3 \times 3 + 3 \times 3 + 4 \times 3 =$
29. $2 \times 3 + 1 \times 3 + 2 \times 3 =$
30. $3 \times 3 + 2 \times 3 + 3 \times 3 =$
31. $4 \times 3 + 3 \times 3 + 4 \times 3 =$
32. $2 \times 3 + 3 \times 3 + 4 \times 3 =$
33. $7 \times 7 + 6 \times 6 + 3 \times 3 =$
34. $8 \times 8 + 5 \times 7 + 2 \times 2 =$
35. $9 \times 9 + 7 \times 6 + 3 \times 2 =$
36. $10 \times 7 + 6 \times 8 + 1 \times 6 =$
37. $8 \times 7 + 9 \times 4 + 3 \times 4 =$
38. $7 \times 10 + 6 \times 5 + 2 \times 3 =$
39. $9 \times 9 + 5 \times 7 + 6 \times 2 =$

40. $8 \times 5 + 4 \times 9 + 3 \times 3 =$

41. $6 \times x + 7 \times x - 3 \times x =$

42. $5 \times x - 2 \times x + 3 \times x =$

43. $6 \times b + 9 \times b + 8 \times b =$

44. $8 \times b + 7 \times b - 6 \times b =$

45. $3 \times a + 9 \times a - 4 \times a =$

45. $8 \times a + 7 \times a - 4 \times a =$

46. $8 \times a + 7 \times a - 9 \times a =$

47. $7 \times x - 5 \times x + 3 \times x =$

48. $11 \times x + 5 \times x - 6 \times x =$

49. $9x + 5x + 3x =$

50. $8x + 7x - 3x =$

LESSON CVII.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
93,762	76,369	69,518	55,555	34,567
81,321	24,135	67,312	43,215	12,345

(6)	(7)	(8)	(9)	(10)
89,012	66,766	55,847	44,876	82,916
73,011	13,613	12,716	13,373	71,613

ADDITION.

(11)	(12)	(13)	(14)	(15)
25,184	41,141	35,726	33,766	53,327
376	8,617	21,594	12,816	64
33,325	375	11,813	76	1,317
7,646	94	12,376	35	21,777
13,854	7	11,254	115	365

- | | |
|---------------|----------|
| 16. CCXCVI= | 21. 327= |
| 17. CCLXXXV= | 22. 165= |
| 18. CCCXIII= | 23. 128= |
| 19. CXVII= | 24. 143= |
| 20. CCCXLIII= | 25. 279= |

LESSON CVIII.

1. $6 \times 6 + 7 \times 5 + 8 \times 2 = 87 \times 1$.
2. $9 \times 7 + 6 \times 6 + 3 \times 3 =$
3. $8 \times 4 + 4 \times 8 + 3 \times 2 =$
4. $9 \times 9 + 7 \times 6 + 2 \times 2 =$
5. $7 \times 7 + 6 \times 6 + 1 \times 6 =$
6. $8 \times 5 + 5 \times 8 + 4 \times 4 =$
7. $9 \times 3 + 3 \times 7 + 6 \times 2 =$
8. $8 \times 8 + 5 \times 5 + 3 \times 3 =$
9. $10 \times 5 + 4 \times 10 + 4 \times 4 =$
10. $9 \times 4 + 3 \times 8 + 2 \times 5 =$
11. $7 \times 5 + 6 \times 7 + 3 \times 2 =$
12. $8 \times 6 + 6 \times 5 + 3 \times 4 =$
13. $7 \times 7 + 5 \times 5 + 2 \times 1 =$
14. $9 \times 4 + 7 \times 6 + 3 \times 5 =$
15. $8 \times 7 + 7 \times 7 + 2 \times 3 =$
16. $3 \times 12 + 3 \times 12 + 3 \times 12 =$
17. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
18. $4 \times 12 + 4 \times 12 + 4 \times 12 =$
19. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
20. $3 \times 12 + 5 \times 12 + 3 \times 12 =$

21. $1 \times 12 + 5 \times 12 + 1 \times 12 =$

22. $1 \times 12 + 2 \times 12 + 1 \times 12 =$

23. $2 \times 12 + 5 \times 12 + 3 \times 12 =$

24. $2 \times 12 + 5 \times 12 + 1 \times 12 =$

25. $1 \times 12 + 3 \times 12 + 1 \times 12 =$

26. $2 \times 12 + 3 \times 12 + 4 \times 12 =$

27. $3 \times 11 + 3 \times 11 + 5 \times 11 =$

28. $2 \times 11 + 3 \times 11 + 3 \times 11 =$

29. $2 \times 11 + 1 \times 11 + 2 \times 11 =$

30. $1 \times 11 + 1 \times 11 + 2 \times 11 =$

31. $2 \times 11 + 3 \times 11 + 2 \times 11 =$

32. $3 \times 11 + 3 \times 11 + 4 \times 11 =$

33. $1 \times 11 + 1 \times 11 + 1 \times 11 =$

34. $2 \times 11 + 3 \times 11 + 3 \times 11 =$

35. $3 \times 11 + 4 \times 11 + 2 \times 11 =$

36. $2 \times 11 + 2 \times 11 + 8 \times 11 =$

37. $3 \times 10 + 3 \times 10 + 6 \times 10 =$

38. $2 \times 10 + 3 \times 10 + 5 \times 10 =$

39. $3 \times 10 + 1 \times 10 + 7 \times 10 =$

40. $2 \times 10 + 3 \times 10 + 2 \times 10 =$

41. $376 =$

42. $294 =$

43. $483 =$

44. $176 =$

45. $213 =$

46. $9x + 11x + 7x =$

47. $8x + 6x + 5x =$

48. $10x - 6x + 5x =$

49. $11b - 7b - 2b =$

50. $12b + 6b - 10b =$

LESSON CIX.

1. $6 \times 7 + 6 \times 5 + 3 \times 3 = 81 \times 1.$

2. $9 \times 5 + 8 \times 4 + 7 \times 1 =$

3. $8 \times 1 + 7 \times 5 + 2 \times 2 =$

4. $9 \times 9 + 5 \times 6 + 4 \times 3 =$

5. $8 \times 6 + 6 \times 4 + 3 \times 2 =$

7. $7 \times 7 + 5 \times 5 + 4 \times 4 =$

8. $5 \times 11 + 3 \times 10 + 2 \times 3 =$

9. $8 \times 4 + 7 \times 3 + 3 \times 3 =$

10. $4 \times 10 + 1 \times 5 + 6 \times 1 =$

11. $9 \times 4 + 8 \times 3 + 2 \times 2 =$

12. $7 \times 6 + 9 \times 3 + 3 \times 3 =$

13. $6 \times 5 + 8 \times 4 + 7 \times 2 =$

14. $9 \times 7 + 4 \times 8 + 2 \times 5 =$

15. $7 \times 7 + 5 \times 5 + 3 \times 4 =$

16. $9 \times 3 + 8 \times 4 + 5 \times 1 =$

17. $7 \times 4 + 3 \times 11 + 6 \times 2 =$

18. $10 \times 6 + 7 \times 4 + 3 \times 3 =$

19. $8 \times 5 + 9 \times 3 + 2 \times 2 =$

20. $7 \times 7 + 5 \times 5 + 4 \times 4 =$

21. I bought at one time 9 books, at another time 7 books, at another time 11 books, and at another time 6 books; how many books did I buy? *Ans.*—I bought 33 books.

22. James shot an arrow 21 feet; he sent a boy after it; how far would the boy have to go to get the arrow and bring it back to James?

23. There are 3 feet in one yard; how many feet in 9 yards?

24. There are 12 inches in one foot; how many inches in 12 feet?

LESSON CX.

1. $3 \times 12 + 3 \times 12 + 3 \times 12 = 9 \times 12 = 108 \times 1.$
2. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
3. $4 \times 12 + 4 \times 12 + 4 \times 12 =$
4. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
5. $3 \times 12 + 1 \times 12 + 1 \times 12 =$
6. $2 \times 12 + 2 \times 12 + 4 \times 12 =$
7. $3 \times 12 + 3 \times 12 + 5 \times 12 =$
8. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
9. $3 \times 12 + 1 \times 12 + 3 \times 12 =$
10. $2 \times 12 + 3 \times 12 + 5 \times 12 =$
11. $1 \times 11 + 3 \times 11 + 1 \times 11 =$
12. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
13. $3 \times 11 + 4 \times 11 + 5 \times 11 =$
14. $1 \times 11 + 3 \times 11 + 6 \times 11 =$
15. $2 \times 11 + 3 \times 11 + 4 \times 11 =$
16. $3 \times 10 + 2 \times 10 + 3 \times 10 =$
17. $3 \times 10 + 4 \times 10 + 4 \times 10 =$
18. $4 \times 10 + 7 \times 10 + 1 \times 10 =$

19. $1 \times 10 + 5 \times 10 + 3 \times 10 =$

20. $2 \times 10 + 3 \times 10 + 2 \times 10 =$

21. $3 \times 9 + 4 \times 6 + 2 \times 7 =$

22. $4 \times 8 + 5 \times 7 + 6 \times 4 =$

23. $9 \times 5 + 3 \times 7 + 8 \times 4 =$

24. $6 \times 9 + 5 \times 8 + 7 \times 6 =$

25. $9 \times 3 + 8 \times 4 + 5 \times 6 =$

26. $7 \times 7 + 6 \times 3 + 9 \times 2 =$

27. $8 \times 4 + 7 \times 6 + 9 \times 3 =$

28. $10 \times 7 + 7 \times 5 + 6 \times 8 =$

29. $3 \times 9 + 8 \times 7 + 5 \times 6 =$

30. $7 \times 4 + 9 \times 5 + 6 \times 6 =$

SUBTRACTION.

(31)	(32)	(33)	(34)	(35)
37,625	76,385	85,727	96,386	24,764
14,114	15,124	43,212	72,154	13,613

(36)	(37)	(38)	(39)	(40)
95,848	77,596	69,729	57,926	93,969
72,616	36,276	18,316	16,713	81,726

LESSON CXI.

NOTE.—Teacher may dictate these examples for slate-work.

(1)	(2)	(3)	(4)	(5)
36,725	52,135	33,724	27,254	37,556
13,854	7,643	12,345	286	3,929
2,764	18,596	678	3,724	18,496
5,382	375	93	18,969	376

(6)	(7)	(8)	(9)	(10)
28,975	29,546	39,275	49,354	33,516
3,296	766	856	12,345	87
27,589	39	64	27,689	24,006
669	13,918	9	14,276	13,879
<hr/>				
(11)	(12)	(13)	(14)	(15)
14,276	27,586	27,635	35,276	27,606
26,854	3,972	18,959	12,966	18,095
376	9,846	24,966	34,876	2,003
13,951	33,859	33,857	28,396	35,898
<hr/>				

LESSON CXII.

- $9 \times 6 + 3 \times 7 + 4 \times 4 = 91 \times 1.$
- $6 \times 7 + 7 \times 6 + 5 \times 3 =$
- $10 \times 4 + 6 \times 6 + 3 \times 6 =$
- $9 \times 5 + 7 \times 3 + 3 \times 4 =$
- $6 \times 8 + 8 \times 3 + 7 \times 2 =$
- $9 \times 4 + 6 \times 7 + 3 \times 5 =$
- $7 \times 8 + 5 \times 9 + 8 \times 2 =$
- $5 \times 10 + 6 \times 6 + 5 \times 5 =$
- $8 \times 7 + 6 \times 8 + 3 \times 6 =$
- $10 \times 7 + 5 \times 8 + 8 \times 4 =$
- $8 \times 9 + 3 \times 7 + 6 \times 5 =$
- $9 \times 8 + 7 \times 5 + 3 \times 7 =$
- $10 \times 9 + 7 \times 7 + 4 \times 6 =$
- $6 \times 8 + 7 \times 4 + 5 \times 6 =$

15. $8 \times 7 + 7 \times 6 + 3 \times 8 =$
16. $9 \times 3 + 5 \times 8 + 6 \times 4 =$
17. $3 \times 10 + 9 \times 5 + 3 \times 6 =$
18. $10 \times 7 + 6 \times 6 + 3 \times 10 =$
19. $6 \times 11 + 5 \times 9 + 5 \times 4 =$
20. $3 \times 12 + 12 \times 3 + 3 \times 12 =$
21. $5 \times 9 + 9 \times 7 + 3 \times 9 =$
22. $6 \times 8 + 7 \times 3 + 5 \times 8 =$
23. $12 \times 6 + 7 \times 5 + 3 \times 10 =$
24. $9 \times 9 + 5 \times 5 + 4 \times 4 =$
25. $11 \times 7 + 3 \times 10 + 3 \times 10 =$
26. $8xy + 9xy + 5xy =$
27. $9xy + 7xy + 6xy =$
28. $11xy - 7xy + 5xy =$
29. $6x - 5x + 4x =$
30. $8a + 7a + 9a =$
31. $12b + 7b + 6b =$
32. $11y - 9y + 2y =$
33. $12x - 5x - 3x =$
34. $7ab + 6ab + 5ab =$
35. $9ab + 7ab + 6ab =$

LESSON CXIII.

1. James has 11 cts., and George has 10 times as many cents, how many cents has George?

Ans.—George has 10×11 cts. which are 110 cts.

2. There are 12 girls in each of 9 rows, how many girls in the 9 rows?

3. I bought 2 quarts of peanuts at 10 cts. per quart, and 5 ounces of candy at 5 cts. per ounce, how much money did I spend?

4. A man rode 8 miles an hour for 7 hours, how many miles did he ride?

5. There are 11 girls in each of 12 rows, how many girls in the 12 rows?

SUBTRACTION.

(6)	(7)	(8)	(9)	(10)
32,751	46,789	68,950	51,964	95,876
11,321	13,327	27,840	31,723	72,341

(11)	(12)	(13)	(14)	(15)
27,586	58,667	76,392	89,699	27,676
13,316	23,542	54,181	73,248	16,354

(16)	(17)	(18)	(19)	(20)
54,849	48,379	34,567	78,901	58,946
13,726	27,164	12,345	67,801	37,005

LESSON CXIV.

NOTE.—Teacher may dictate to pupils at the board, or for slate work.

(1)	(2)	(3)	(4)	(5)	(6)
36,815	57,181	30,001	12,876	24,001	51,275
17,256	16,081	25,016	35,127	18,165	1,806
34,180	15,147	3,708	12,975	37,028	25,545
1,700	686	1,561	842	15,274	2,847
305	35	37	33,176	12,676	1,666

(7)	(8)	(9)	(10)	(11)	(12)
29	35,004	27,027	35,186	11,618	33,333
384	16,275	13,113	10,008	25,374	18,105
14,256	2,876	12,002	30,030	12,156	24,267
18,524	364	10,010	25,176	13,241	1,382
32,576	85	1,515	18,255	876	12,500

$$13. 7 \times 6 + 5 \times 4 + 8 \times 3 =$$

$$14. 3 \times 8 + 7 \times 4 + 5 \times 5 =$$

$$15. 4 \times 6 + 3 \times 8 + 1 \times 2 =$$

$$16. 9 \times 7 + 3 \times 1 + 8 \times 2 =$$

$$17. 2 \times 5 + 10 \times 10 + 4 \times 6 =$$

$$18. 7 \times 4 + 8 \times 3 + 5 \times 2 =$$

$$19. 6 \times 6 + 2 \times 2 + 5 \times 5 =$$

$$20. 8 \times 4 + 7 \times 3 + 3 \times 3 =$$

LESSON CXV.

$$1. 11 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 =$$

$$2. 9 \times 1 + 9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 =$$

$$3. 12 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 =$$

$$4. 6 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 3 \times 1 + 4 \times 1 + 5 \times 1 + 4 \times 1 =$$

$$5. 7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 5 \times 1 + 5 \times 1 + 4 \times 1 + 4 \times 1 =$$

$$6. 13 \times 1 + 5 \times 1 + 7 \times 1 + 4 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 =$$

7. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 3 \times 1 + 6 \times 1 =$
8. $10 \times 1 + 11 \times 1 + 6 \times 1 + 8 \times 1 + 11 \times 1 + 5 \times 1 + 4 \times 1 + 8 \times 1 =$
9. $12 \times 1 + 12 \times 1 + 6 \times 1 + 7 \times 1 + 5 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 =$
10. $13 \times 1 + 3 \times 1 + 11 \times 1 + 4 \times 1 + 7 \times 1 + 3 \times 1 + 9 \times 1 + 7 \times 1 =$
11. $11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 6 \times 1 + 2 \times 1 + 10 \times 1 + 6 \times 1 =$
12. $14 \times 1 + 14 \times 1 + 7 \times 1 + 6 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 + 5 \times 1 =$
13. $9 \times 1 + 7 \times 1 + 9 \times 1 + 3 \times 1 + 9 \times 1 + 5 \times 1 + 10 \times 1 + 7 \times 1 =$
14. $10 \times 1 + 12 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 =$
15. $12 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 10 \times 1 + 5 \times 1 + 8 \times 1 + 5 \times 1 =$
16. $14 \times 1 + 6 \times 1 + 3 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 6 \times 1 + 4 \times 1 =$
17. $10 \times 1 + 10 \times 1 + 8 \times 1 + 6 \times 1 + 4 \times 1 + 5 \times 1 + 11 \times 1 + 3 \times 1 =$
18. $15 \times 1 + 15 \times 1 + 6 \times 1 + 8 \times 1 + 5 \times 1 + 7 \times 1 + 3 \times 1 + 8 \times 1 =$
19. $13 \times 1 + 13 \times 1 + 13 \times 1 + 7 \times 1 + 5 \times 1 + 6 \times 1 + 7 \times 1 + 3 \times 1 =$
20. $9 \times 1 + 10 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 8 \times 1 + 3 \times 1 =$

21. $9 \times 7 + 6 \times 6 + 8 \times 5 =$
 22. $3 \times 9 + 7 \times 4 + 5 \times 5 =$
 23. $10 \times 6 + 6 \times 5 + 3 \times 4 =$
 24. $11 \times 7 + 5 \times 8 + 4 \times 4 =$
 25. $9 \times 3 + 7 \times 5 + 8 \times 3 =$
 26. $7 \times 6 + 3 \times 11 + 7 \times 3 =$
 27. $9 \times 8 + 8 \times 6 + 6 \times 6 =$
 28. $7 \times 7 + 6 \times 6 + 5 \times 5 =$
 29. $8 \times 5 + 8 \times 3 + 7 \times 6 =$
 30. $6 \times 11 + 8 \times 5 + 5 \times 4 =$

LESSON CXVI.

(1)	(2)	(3)	(4)	(5)
32,726	44,040	26,726	18,725	35,353
15,483	3,725	93	14,636	20,600
21,065	664	30,509	23,590	3,925
3,701	83	3,264	15,275	2,746
554	7	12,575	12,964	1,325

(6)	(7)	(8)	(9)	(10)
14,144	76,364	15,009	22,724	35,840
21,814	3,725	16,015	36	128
6,374	984	12,305	13,355	21,637
2,584	66	10,093	76	155
12,144	9	12,933	18,255	12,418

11. George paid 14 cts. for a book, 6 cts. for an eraser, 10 cts. for a slate, and 8 cts. for some paper; how much did he pay for all?

12. There are 3 feet in one yard, how many feet in 9 yards?

13. There are 12 inches in one foot, how many inches in 11 feet?

14. Henry had a twenty-five cent piece, eight pennies, and two five cent pieces, how much money did he have?

15. A boy ran 26 feet down the walk and then ran back again, how many feet did he run?

LESSON CXVII.

1. $3 \times 12 + 5 \times 12 + 4 \times 12 =$
2. $2 \times 12 + 3 \times 12 + 6 \times 12 =$
3. $3 \times 12 + 3 \times 12 + 4 \times 12 =$
4. $2 \times 12 + 5 \times 12 + 2 \times 12 =$
5. $3 \times 12 + 3 \times 12 + 2 \times 12 =$
6. $4 \times 12 + 1 \times 12 + 2 \times 12 =$
7. $2 \times 12 + 1 \times 12 + 3 \times 12 =$
8. $2 \times 12 + 1 \times 12 + 2 \times 12 =$
9. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
10. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
11. $2 \times 11 + 3 \times 11 + 6 \times 11 =$
12. $3 \times 11 + 3 \times 11 + 6 \times 11 =$
13. $2 \times 11 + 2 \times 11 + 6 \times 11 =$
14. $1 \times 10 + 3 \times 10 + 8 \times 10 =$
15. $2 \times 10 + 5 \times 10 + 4 \times 10 =$
16. $3 \times 10 + 3 \times 10 + 4 \times 10 =$

17. $1 \times 9 + 3 \times 9 + 5 \times 9 =$
18. $2 \times 9 + 3 \times 9 + 7 \times 9 =$
19. $3 \times 9 + 3 \times 9 + 5 \times 9 =$
20. $2 \times 9 + 3 \times 9 + 5 \times 9 =$
21. $3 \times 9 + 2 \times 9 + 3 \times 9 =$
22. $1 \times 9 + 3 \times 9 + 3 \times 9 =$
23. $2 \times 9 + 2 \times 9 + 2 \times 9 =$
24. $2 \times 9 + 2 \times 9 + 1 \times 9 =$
25. $2 \times 9 + 1 \times 9 + 1 \times 9 =$
26. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
27. $3 \times 8 + 4 \times 8 + 5 \times 8 =$
28. $2 \times 8 + 3 \times 8 + 4 \times 8 =$
29. $1 \times 8 + 2 \times 8 + 3 \times 8 =$
30. $3 \times 8 + 4 \times 8 + 4 \times 8 =$
31. $2 \times 8 + 3 \times 8 + 5 \times 8 =$
32. $3 \times 8 + 2 \times 8 + 3 \times 8 =$
33. $1 \times 8 + 2 \times 8 + 4 \times 8 =$
34. $2 \times 8 + 1 \times 8 + 2 \times 8 =$
35. $1 \times 8 + 2 \times 8 + 1 \times 8 =$
36. $1 \times 8 + 1 \times 8 + 1 \times 8 =$
37. $3 \times 7 + 2 \times 7 + 7 \times 7 =$
38. $1 \times 7 + 3 \times 7 + 7 \times 7 =$
39. $3 \times 7 + 3 \times 7 + 4 \times 7 =$
40. $2 \times 7 + 4 \times 7 + 3 \times 7 =$
41. $1 \times 7 + 2 \times 7 + 4 \times 7 =$
42. $2 \times 7 + 2 \times 7 + 2 \times 7 =$
43. $1 \times 7 + 1 \times 7 + 3 \times 7 =$
44. $1 \times 7 + 2 \times 7 + 1 \times 7 =$

45. $1 \times 7 + 1 \times 7 + 1 \times 7 =$
46. $3 \times 6 + 3 \times 6 + 6 \times 6 =$
47. $2 \times 6 + 3 \times 6 + 6 \times 6 =$
48. $1 \times 6 + 3 \times 6 + 6 \times 6 =$
49. $2 \times 6 + 1 \times 6 + 6 \times 6 =$
50. $1 \times 6 + 1 \times 6 + 6 \times 6 =$
51. $3 \times 6 + 1 \times 6 + 3 \times 6 =$
52. $1 \times 6 + 2 \times 6 + 3 \times 6 =$
53. $1 \times 6 + 1 \times 6 + 3 \times 6 =$
54. $2 \times 6 + 1 \times 6 + 1 \times 6 =$
55. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
56. $2 \times 5 + 3 \times 5 + 7 \times 5 =$
57. $1 \times 5 + 3 \times 5 + 7 \times 5 =$
58. $2 \times 5 + 1 \times 5 + 7 \times 5 =$
59. $1 \times 5 + 1 \times 5 + 7 \times 5 =$
60. $2 \times 5 + 3 \times 5 + 3 \times 5 =$

LESSON. CXVIII.

1. $6 \times 6 + 5 \times 4 + 7 \times 3 =$
2. $8 \times 5 + 9 \times 3 + 3 \times 6 =$
3. $6 \times 7 + 5 \times 5 + 4 \times 8 =$
4. $9 \times 3 + 7 \times 6 + 5 \times 3 =$
5. $7 \times 7 + 6 \times 5 + 4 \times 4 =$
6. $8 \times 7 + 4 \times 4 + 3 \times 5 =$
7. $9 \times 6 + 7 \times 3 + 3 \times 6 =$
8. $8 \times 8 + 5 \times 5 + 4 \times 4 =$
9. $7 \times 6 + 6 \times 7 + 5 \times 5 =$

10. $8 \times 4 + 9 \times 4 + 3 \times 4 =$
11. $12 \times 5 + 7 \times 2 + 6 \times 3 =$
12. $9 \times 5 + 5 \times 9 + 3 \times 7 =$
13. $8 \times 6 + 6 \times 6 + 5 \times 3 =$
14. $9 \times 2 + 8 \times 7 + 6 \times 3 =$
15. $11 \times 6 + 3 \times 11 + 7 \times 2 =$
16. $9 \times 9 + 6 \times 6 + 4 \times 4 =$
17. $8 \times 3 + 7 \times 5 + 4 \times 5 =$
18. $9 \times 8 + 5 \times 7 + 6 \times 3 =$
19. $6 \times 6 + 5 \times 5 + 7 \times 7 =$
20. $4 \times 8 + 8 \times 4 + 3 \times 9 =$

SUBTRACTION.

(21)	(22)	(23)	(24)	(25)
36,729	59,864	96,769	75,946	82,729
14,316	18,723	83,616	33,726	71,616

LESSON CXIX.

(1)	(2)	(3)	(4)	(5)
136,345	246,376	115,115	165,156	125,252
127,246	18,185	27,064	37,276	67,376
30,030	100,703	113,359	103,303	104,400
118,056	26,376	33,303	24,276	26,370
120,505	10,518	102,201	120,301	34,376
(6)	(7)	(8)	(9)	(10)
303,303	271,276	116,369	363,763	156,600
109,901	93,855	109,090	94,186	37,636
96,876	112,316	15,176	3,725	100,100
125,841	24,909	3,954	418	10,010
346	115,263	112,212	63	110,969

11. James has 18 marbles, George has 13 marbles, and Henry has as many as James and George together, how many marbles has Henry?

12. A man gave each of his two sons \$12, and each of his three daughters \$10, how much money did he give to his children?

13. If one book cost 11 cts., what will 10 books cost?

14. I bought 4 ounces of candy at 5 cts. per ounce, how much change should I receive from 25 cts.?

15. John is 10 years old and his sister is 3 years younger, how old is his sister?

LESSON CXX.

1. $3 \times 12 + 8 \times 7 + 9 \times 4 =$

2. $9 \times 9 + 6 \times 6 + 7 \times 3 =$

3. $9 \times 7 + 7 \times 8 + 5 \times 6 =$

4. $6 \times 6 + 8 \times 3 + 9 \times 3 =$

5. $7 \times 5 + 5 \times 7 + 7 \times 5 =$

6. $8 \times 4 + 9 \times 3 + 7 \times 4 =$

7. $12 \times 5 + 8 \times 6 + 3 \times 4 =$

8. $9 \times 10 + 6 \times 7 + 5 \times 5 =$

9. $8 \times 5 + 6 \times 8 + 4 \times 4 =$

10. $11 \times 3 + 7 \times 6 + 5 \times 4 =$

11. $9 \times 8 + 7 \times 7 + 6 \times 6 =$

12. $8 \times 10 + 10 \times 7 + 6 \times 10 =$

13. $9 \times 3 + 5 \times 9 + 4 \times 6 =$

14. $8 \times 5 + 7 \times 6 + 9 \times 3 =$

15. $12 \times 7 + 6 \times 3 + 4 \times 4 =$

SUBTRACTION.

(16)	(17)	(18)	(19)	(20)
376,915	577,986	678,989	430,732	284,826
125,814	345,673	346,789	120,031	173,316
(21)	(22)	(23)	(24)	(25)
738,093	139,186	357,124	447,646	357,913
616,072	21,170	124	137,212	123,413

LESSON CXXI.

- $11 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 5 \times 1 + 6 \times 1 + 3 \times 1 + 6 \times 1 =$
- $7 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 8 \times 1 + 8 \times 1 + 5 \times 1 + 5 \times 1 =$
- $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 4 \times 1 + 3 \times 1 + 10 \times 1 =$
- $8 \times 1 + 7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 6 \times 1 + 5 \times 1 + 9 \times 1 =$
- $9 \times 1 + 10 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 7 \times 1 =$
- $10 \times 1 + 11 \times 1 + 7 \times 1 + 8 \times 1 + 5 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 =$
- $11 \times 1 + 11 \times 1 + 11 \times 1 + 6 \times 1 + 5 \times 1 + 6 \times 1 + 5 \times 1 + 6 \times 1 =$

8. $10 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 =$
9. $12 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
10. $9 \times 1 + 8 \times 1 + 7 \times 1 + 11 \times 1 + 7 \times 1 + 6 \times 1 + 10 \times 1 + 5 \times 1 =$
11. $12 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 =$
12. $13 \times 1 + 4 \times 1 + 11 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 10 \times 1 + 6 \times 1 =$
13. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$
14. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$
15. $9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$
16. $7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 + 7 \times 1 =$
17. $6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 + 6 \times 1 =$
18. $7 \times 1 + 11 \times 1 + 6 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 + 6 \times 1 + 10 \times 1 =$
19. $9 \times 1 + 7 \times 1 + 6 \times 1 + 11 \times 1 + 5 \times 1 + 10 \times 1 + 5 \times 1 + 11 \times 1 =$
20. $6 \times 1 + 11 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 10 \times 1 =$

- | | |
|--------------------------|------------|
| 21. M=1,000 | 31. 1,275= |
| 22. CM=900 | 32. 1,556= |
| 23. DCCLXXII= | 33. 2,374= |
| 24. CDLXVII= | 34. 1,633= |
| 25. DCXLIV= | 35. 2,482= |
| 26. CCCLXXXVII= | 36. 3,168= |
| 27. DCCCXCVI= | 37. 1,791= |
| 28. CMLXXI= | 38. 2,829= |
| 29. MCCXLV= | 39. 3,003= |
| 30. MDCLXX= | 40. 1,010= |
| 41. $11ab+7ab+6ab=24ab.$ | |
| 42. $5a+7a+6a=$ | |
| 43. $3x-2x+8x=$ | |
| 44. $5a+3b+4a=$ | |
| 45. $7x+3x+2xy=$ | |
| 46. $9a+2a-6b=$ | |
| 47. $11ab+5ab+3a=$ | |
| 48. $7x+5y+3x=$ | |
| 49. $3x+6x+2xy=$ | |
| 50. $9a+3ab+2a=$ | |

LESSON CXXII.

- $8 \times 8 + 7 \times 7 + 3 \times 3 = 122$
- $9 \times 9 + 7 \times 11 + 8 \times 5 =$
- $9 \times 7 + 6 \times 8 + 4 \times 4 =$
- $8 \times 6 + 7 \times 7 + 3 \times 9 =$
- $9 \times 11 + 8 \times 7 + 4 \times 4 =$

6. $11 \times 7 + 10 \times 8 + 7 \times 6 =$
7. $14 \times 1 + 17 \times 1 + 3 \times 9 =$
8. $16 \times 1 + 14 \times 1 + 3 \times 8 =$
9. $9 \times 9 + 6 \times 8 + 3 \times 11 =$
10. $11 \times 7 + 6 \times 7 + 9 \times 4 =$
11. $12 \times 9 + 7 \times 6 + 9 \times 3 =$
12. $9 \times 9 + 8 \times 8 + 7 \times 4 =$
13. $8 \times 4 + 7 \times 6 + 8 \times 6 =$
14. $9 \times 9 + 8 \times 7 + 8 \times 6 =$
15. $8 \times 4 + 9 \times 9 + 7 \times 3 =$
16. $7 \times 9 + 8 \times 5 + 3 \times 12 =$
17. $8 \times 8 + 7 \times 7 + 6 \times 5 =$
18. $11 \times 11 + 6 \times 8 + 4 \times 7 =$
19. $3 \times 9 + 8 \times 5 + 7 \times 4 =$
20. $11 \times 6 + 7 \times 3 + 8 \times 2 =$
21. $9 \times 12 + 6 \times 6 + 5 \times 5 =$
22. $9 \times 8 + 6 \times 7 + 8 \times 5 =$
23. $11 \times 12 + 8 \times 7 + 9 \times 6 =$

(24)	(25)	(26)	(27)
23,675	86,546	37,148	47,147
14,700	3,368	1,476	3,376
1,001	1,674	10,643	1,000
865	475	374	007
96	90	37	70

(28)	(29)	(30)	(31)
10,007	30,007	10,600	30,008
37,076	1,006	10,007	1,000
3,001	370	1,006	906
674	3,476	007	1,007
40	908	96	008

LESSON CXXIII.

1. A boy bought 5 ounces of candy at 5 cts. per ounce, and two quarts of peanuts at 10 cts. per quart, how much did he pay for all?

2. James is 24 years old and Kate is 6 years younger, how old is Kate?

3. George had 16 marbles and lost 9 of them, how many had he left?

4. Sara shot an arrow 29 feet, how far would she have to go to get the arrow and bring it back?

5. $8 \times 6 + 7 \times 5 + 4 \times 4 =$

6. $9 \times 8 + 6 \times 6 + 3 \times 5 =$

7. $8 \times 7 + 7 \times 6 + 5 \times 4 =$

8. $10 \times 6 + 6 \times 8 + 3 \times 6 =$

9. $9 \times 5 + 5 \times 9 + 4 \times 3 =$

10. $8 \times 5 + 6 \times 7 + 9 \times 3 =$

11. $11 \times 6 + 7 \times 10 + 5 \times 5 =$

12. $12 \times 8 + 6 \times 11 + 5 \times 2 =$

13. $9 \times 6 + 8 \times 5 + 7 \times 3 =$

14. $7 \times 7 + 6 \times 6 + 5 \times 5 =$

15. $8 \times 8 + 4 \times 4 + 6 \times 6 =$

16. $9 \times 8 + 5 \times 7 + 3 \times 8 =$

17. $8 \times 7 + 7 \times 8 + 6 \times 2 =$

18. $6 \times 11 + 7 \times 5 + 4 \times 10 =$

19. $9 \times 5 + 8 \times 4 + 3 \times 7 =$

20. $11 \times 6 + 6 \times 8 + 9 \times 5 =$

21. $7 \times 7 + 9 \times 9 + 6 \times 3 =$

22. $8 \times 8 + 8 \times 5 + 6 \times 4 =$

23. $9 \times 9 + 8 \times 5 + 7 \times 6 =$

24. $10 \times 7 + 8 \times 11 + 6 \times 2 =$

LESSON CXXIV.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
366,184	729,886	519,875	928,820	448,096
124,133	616,662	314,110	716,610	327,052

(6)	(7)	(8)	(9)	(10)
927,729	643,004	546,433	443,729	838,726
816,616	312,000	125,113	121,616	724,313

(11)	(12)	(13)	(14)	(15)
954,512	444,444	675,890	275,824	116,187
723,310	123,123	345,670	61,312	3,120

(16)	(17)	(18)	(19)	(20)
334,416	437,256	678,989	256,061	854,726
123,014	213,121	313,919	133,011	323,615

21. $9 \times 6 + 6 \times 8 =$

22. $7 \times 9 + 5 \times 8 =$

23. $9 \times 9 + 6 \times 11 =$

24. $7 \times 5 + 8 \times 12 =$

25. $9 \times 6 + 6 \times 11 =$

26. $7 \times 8 + 8 \times 7 =$

27. $9 \times 8 + 7 \times 4 =$

28. $6 \times 11 + 11 \times 6 =$

29. $8 \times 5 + 9 \times 3 =$

30. $6 \times 7 + 5 \times 12 =$

31. $9 \times 7 + 5 \times 11 =$ 36. $9 \times 8 + 7 \times 6 =$
32. $8 \times 4 + 7 \times 6 =$ 37. $11 \times 5 + 6 \times 12 =$
33. $9 \times 3 + 12 \times 7 =$ 38. $7 \times 9 + 10 \times 8 =$
34. $7 \times 6 + 9 \times 3 =$ 39. $9 \times 7 + 11 \times 6 =$
35. $12 \times 8 + 8 \times 5 =$ 40. $12 \times 8 + 6 \times 9 =$

LESSON CXXV.

1. $9 \times 5 + 8 \times 7 + 6 \times 4 =$
2. $7 \times 8 + 5 \times 6 + 9 \times 3 =$
3. $6 \times 6 + 7 \times 7 + 5 \times 5 =$
4. $9 \times 4 + 4 \times 9 + 9 \times 4 =$
5. $8 \times 7 + 6 \times 9 + 3 \times 11 =$
6. $12 \times 5 + 8 \times 3 + 7 \times 4 =$
7. $9 \times 6 + 6 \times 6 + 3 \times 8 =$
8. $7 \times 5 + 12 \times 3 + 7 \times 6 =$
9. $8 \times 11 + 11 \times 4 + 6 \times 7 =$
10. $5 \times 9 + 11 \times 7 + 6 \times 3 =$
11. $7 \times 9 + 8 \times 6 + 6 \times 7 =$
12. $4 \times 8 + 11 \times 8 + 6 \times 8 =$
13. $9 \times 5 + 7 \times 6 + 11 \times 3 =$
14. $12 \times 7 + 6 \times 4 + 8 \times 2 =$
15. $9 \times 5 + 5 \times 12 + 11 \times 4 =$
16. $7 \times 11 + 11 \times 7 + 5 \times 4 =$
17. $9 \times 8 + 7 \times 6 + 5 \times 4 =$
18. $6 \times 9 + 5 \times 10 + 11 \times 3 =$
19. $12 \times 5 + 5 \times 12 + 12 \times 5 =$
20. $7 \times 4 + 8 \times 7 + 6 \times 6 =$



(21)	(22)	(23)	(24)	(25)
637,186	113,215	34,686	28,616	116,376
15,494	124,673	27,953	13,770	124,815
7,216	215,813	59,416	20,596	136,073
437	134,355	12,756	35,676	155,559
24	123,456	33,375	44,546	124,156
<hr/>				
(26)	(27)	(28)	(29)	(30)
276,055	315,155	155,480	314,764	64,344
18,476	94,766	2,766	44,324	84,275
3,729	113,376	13,518	3,724	36,864
116,483	2,756	112,764	444	21,959
27,616	116,616	3,346	113,124	18,437
<hr/>				

LESSON CXXVI.

1. There are 19 boys in one row, 16 boys in another row, and 11 boys in another row, how many boys in the three rows?

2. If one sky-rocket cost 9 cts., what will 11 sky-rockets cost?

3. I bought 5 ounces of candy at 4 cts. per ounce, and 2 quarts of peanuts at 10 cts. per quart, how much did I pay for all?

4. I spent at one time 16 cts., at another time 17 cts., at another time 18 cts., and at another time 12 cts., how many cents did I spend?

- | | |
|-----------------------------------|-----------------------------------|
| 5. 12×11 cts. = ? | 18. $9 \times 4 + 8 \times 6 =$ |
| 6. $9 \times 5 + 8 \times 6 =$ | 19. $8 \times 6 + 7 \times 5 =$ |
| 7. $7 \times 9 + 6 \times 6 =$ | 20. $9 \times 4 + 8 \times 3 =$ |
| 8. $5 \times 8 + 8 \times 7 =$ | 21. $7 \times 6 + 6 \times 5 =$ |
| 9. $3 \times 12 + 6 \times 9 =$ | 22. $11 \times 7 + 4 \times 9 =$ |
| 10. $5 \times 11 + 4 \times 12 =$ | 23. $8 \times 6 + 6 \times 6 =$ |
| 11. $8 \times 7 + 7 \times 8 =$ | 24. $3 \times 9 + 5 \times 8 =$ |
| 12. $9 \times 9 + 8 \times 8 =$ | 25. $9 \times 4 + 8 \times 6 =$ |
| 13. $7 \times 7 + 6 \times 6 =$ | 26. $7 \times 11 + 11 \times 5 =$ |
| 14. $5 \times 5 + 4 \times 4 =$ | 27. $9 \times 3 + 7 \times 6 =$ |
| 15. $7 \times 6 + 8 \times 7 =$ | 28. $8 \times 5 + 7 \times 4 =$ |
| 16. $5 \times 9 + 4 \times 8 =$ | 29. $7 \times 8 + 6 \times 8 =$ |
| 17. $3 \times 10 + 7 \times 8 =$ | 30. $9 \times 3 + 11 \times 3 =$ |

LESSON CXXVII.

(1)	(2)	(3)	(4)	(5)
36,406	37,604	67,140	83,907	36,140
3,007	9,006	8,007	1,004	9,004
306	940	960	904	996
37	107	37	67	85
104	90	8	9	107

(6)	(7)	(8)	(9)	(10)
30,004	37,106	94,607	38,470	89,104
1,000	9,000	9,060	9,060	3,070
906	7,640	407	370	906
87	844	96	67	100
4	30	8	9	7

(11)	(12)	(13)	(14)	(15)
46,106	38,407	38,960	37,648	39,640
3,070	1,006	1,006	3,001	1,007
306	943	907	675	960
94	94	3,006	96	87
5	7	95	5	90

(16)	(17)	(18)	(19)	(20)
30,307	39,140	95,107	37,007	37,140
9,001	1,060	607	9,004	3,007
1,003	376	1,001	376	4,006
670	45	635	47	1,007
4	8	46	109	37

21. $8 \times 9 + 6 \times 7 + 5 \times 4 = 134.$

22. $9 \times 9 + 7 \times 7 + 6 \times 3 =$

23. $8 \times 4 + 6 \times 6 + 5 \times 4 =$

24. $8 \times 6 + 9 \times 4 + 6 \times 3 =$

25. $9 \times 10 + 8 \times 6 + 6 \times 4 =$

26. $12 \times 6 + 3 \times 11 + 6 \times 3 =$

27. $9 \times 5 + 6 \times 7 + 3 \times 3 =$

28. $9 \times 6 + 4 \times 6 + 3 \times 4 =$

29. $11 \times 11 + 9 \times 5 + 4 \times 4 =$

30. $9 \times 8 + 7 \times 4 + 7 \times 5 =$

$8 \times 9 =$ $7 \times 11 =$ $12 \times 7 =$ $6 \times 8 =$

$12 \times 7 =$ $12 \times 5 =$ $9 \times 5 =$ $4 \times 4 =$

$9 \times 5 =$ $8 \times 8 =$ $6 \times 6 =$ $9 \times 2 =$

$8 \times 11 =$ $7 \times 6 =$ $7 \times 7 =$ $10 \times 8 =$

$11 \times 12 =$ $8 \times 5 =$ $8 \times 3 =$ $6 \times 4 =$

$12 \times 6 =$ $9 \times 6 =$ $9 \times 2 =$ $5 \times 7 =$

$8 \times 8 =$ $8 \times 7 =$ $8 \times 5 =$ $8 \times 11 =$

$$14. 10 \times 1 + 11 \times 1 + 8 \times 1 + 6 \times 1 + 12 \times 1 + 8 \times 1 + 11 \times 1 + 15 \times 1 =$$

$$15. 9 \times 1 + 12 \times 1 + 15 \times 1 + 18 \times 1 + 13 \times 1 + 16 \times 1 + 15 \times 1 + 11 \times 1 =$$

$$16. \text{CMLXXI} = \quad 26. 1,204 =$$

$$17. \text{MMMCCXCVII} = \quad 27. 2,956 =$$

$$18. \text{MCDVIII} = \quad 28. 1,875 =$$

$$19. \text{MIV} = \quad 29. 3,720 =$$

$$20. \text{MDCLXXXVI} = \quad 30. 955 =$$

$$21. \text{CCCXLIV} = \quad 31. 729 =$$

$$22. \text{MCCLI} = \quad 32. 1,643 =$$

$$23. \text{MCVIII} = \quad 33. 2,413 =$$

$$24. \text{MMCDIX} = \quad 34. 3,721 =$$

$$25. \text{CXIX} = \quad 35. 1,116 =$$

$$36. 11x + 7y + 5x = 16x + 7y$$

$$37. 9x + 6y - 3x =$$

$$38. 8ab + 4ab + 3a =$$

$$39. 6a + 7ab - 4a =$$

$$40. 9xy + 8xy - 6xy =$$

$$41. 6xy + 7y - 4xy =$$

$$42. 6a^2 + 7a^2 + 9a^2 =$$

$$43. 5a^2 + 6a^2 - 7a^2 =$$

$$44. 9a^2b + 7a^2b + 6a^2b =$$

$$45. 9a^2b - 7a^2b + 6a^2b =$$

LESSON CXXIX.

$$1. 3 \times 12 + 3 \times 12 + 3 \times 12 =$$

$$2. 2 \times 12 + 2 \times 12 + 2 \times 12 =$$

3. $4 \times 12 + 4 \times 12 + 4 \times 12 =$
4. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
5. $3 \times 12 + 1 \times 12 + 1 \times 12 =$
6. $2 \times 12 + 3 \times 12 + 4 \times 12 =$
7. $3 \times 12 + 3 \times 12 + 2 \times 12 =$
8. $2 \times 12 + 5 \times 12 + 4 \times 12 =$
9. $2 \times 12 + 4 \times 12 + 1 \times 12 =$
10. $1 \times 12 + 3 \times 12 + 6 \times 12 =$
11. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
12. $3 \times 11 + 3 \times 11 + 3 \times 11 =$
13. $4 \times 11 + 5 \times 11 + 3 \times 11 =$
14. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
15. $1 \times 11 + 1 \times 11 + 9 \times 11 =$
16. $2 \times 11 + 3 \times 11 + 3 \times 11 =$
17. $2 \times 11 + 3 \times 11 + 1 \times 11 =$
18. $1 \times 11 + 2 \times 11 + 5 \times 11 =$
19. $3 \times 10 + 3 \times 10 + 4 \times 10 =$
20. $3 \times 10 + 2 \times 10 + 3 \times 10 =$
21. $5 \times 10 + 5 \times 10 + 2 \times 10 =$
22. $2 \times 10 + 2 \times 10 + 7 \times 10 =$
23. $3 \times 9 + 3 \times 9 + 5 \times 9 =$
24. $2 \times 9 + 2 \times 9 + 5 \times 9 =$
25. $1 \times 9 + 3 \times 9 + 6 \times 9 =$
26. $2 \times 9 + 2 \times 9 + 4 \times 9 =$
27. $3 \times 9 + 4 \times 9 + 5 \times 9 =$
28. $2 \times 9 + 1 \times 9 + 4 \times 9 =$
29. $1 \times 9 + 1 \times 9 + 2 \times 9 =$
30. $3 \times 9 + 1 \times 9 + 2 \times 9 =$

31. $2 \times 9 + 1 \times 9 + 2 \times 9 =$
32. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
33. $1 \times 8 + 1 \times 8 + 1 \times 8 =$
34. $2 \times 8 + 3 \times 8 + 2 \times 8 =$
35. $3 \times 8 + 4 \times 8 + 4 \times 8 =$
36. $1 \times 8 + 2 \times 8 + 1 \times 8 =$
37. $3 \times 8 + 4 \times 8 + 1 \times 8 =$
38. $5 \times 8 + 4 \times 8 + 3 \times 8 =$
39. $2 \times 8 + 2 \times 8 + 1 \times 8 =$
40. $3 \times 8 + 4 \times 8 + 2 \times 8 =$
41. $2 \times 8 + 3 \times 8 + 1 \times 8 =$
42. $3 \times 8 + 5 \times 8 + 2 \times 8 =$
43. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
44. $1 \times 7 + 1 \times 7 + 3 \times 7 =$
45. $2 \times 7 + 3 \times 7 + 2 \times 7 =$
46. $1 \times 7 + 1 \times 7 + 1 \times 7 =$
47. $3 \times 7 + 2 \times 7 + 4 \times 7 =$
48. $2 \times 7 + 3 \times 7 + 6 \times 7 =$
49. $1 \times 7 + 2 \times 7 + 3 \times 7 =$
50. $1 \times 7 + 2 \times 7 + 1 \times 7 =$
51. $2 \times 7 + 3 \times 7 + 3 \times 7 =$
52. $1 \times 7 + 3 \times 7 + 6 \times 7 =$
53. $2 \times 7 + 2 \times 7 + 8 \times 7 =$
54. $3 \times 6 + 2 \times 6 + 1 \times 6 =$
55. $2 \times 6 + 3 \times 6 + 5 \times 6 =$
56. $1 \times 6 + 1 \times 6 + 7 \times 6 =$
57. $2 \times 6 + 1 \times 6 + 4 \times 6 =$
58. $3 \times 6 + 3 \times 6 + 6 \times 6 =$

59. $2 \times 6 + 1 \times 6 + 5 \times 6 =$

60. $1 \times 6 + 2 \times 6 + 2 \times 6 =$

LESSON CXXX.

1. $6 \times 6 + 5 \times 8 + 4 \times 4 =$

2. $8 \times 7 + 6 \times 7 + 3 \times 7 =$

3. $2 \times 9 + 8 \times 6 + 9 \times 4 =$

4. $7 \times 5 + 6 \times 8 + 4 \times 3 =$

5. $9 \times 8 + 7 \times 6 + 6 \times 2 =$

6. $10 \times 7 + 6 \times 6 + 5 \times 4 =$

7. $8 \times 6 + 6 \times 8 + 3 \times 6 =$

8. $7 \times 5 + 9 \times 4 + 2 \times 5 =$

9. $6 \times 9 + 9 \times 6 + 6 \times 9 =$

10. $2 \times 8 + 9 \times 12 + 7 \times 3 =$

11. $6 \times 3 + 8 \times 5 + 9 \times 4 =$

12. $7 \times 8 + 8 \times 6 + 6 \times 5 =$

13. $3 \times 8 + 7 \times 4 + 9 \times 2 =$

14. $9 \times 4 + 4 \times 9 + 9 \times 4 =$

15. $8 \times 3 + 7 \times 6 + 6 \times 4 =$

16. $11 \times 1 + 6 \times 1 + 8 \times 1 + 12 \times 1 + 9 \times 1 + 10 \times 1$
 $+ 11 \times 1 + 12 \times 1 =$

17. $9 \times 1 + 7 \times 1 + 6 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 12$
 $\times 1 + 13 \times 1 =$

18. $8 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 11 \times 1 + 16 \times 1 +$
 $11 \times 1 + 14 \times 1 =$

19. $7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 12 \times 1 +$
 $13 \times 1 + 15 \times 1 =$

$$20. 10 \times 1 + 11 \times 1 + 12 \times 1 + 12 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 11 \times 1 =$$

$$21. 16 \times 1 + 15 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 =$$

$$22. 12 \times 1 + 12 \times 1 + 8 \times 1 + 6 \times 1 + 7 \times 1 + 8 \times 1 + 11 \times 1 + 12 \times 1 =$$

$$23. 13 \times 1 + 15 \times 1 + 11 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 13 \times 1 =$$

$$24. 14 \times 1 + 14 \times 1 + 13 \times 1 + 13 \times 1 + 16 \times 1 + 15 \times 1 + 13 \times 1 + 12 \times 1 =$$

$$25. 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 8 \times 1 + 11 \times 1 + 12 \times 1 + 10 \times 1 =$$

$$26. 11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 =$$

$$27. 12 \times 1 + 13 \times 1 + 10 \times 1 + 8 \times 1 + 6 \times 1 + 11 \times 1 + 11 \times 1 + 13 \times 1 =$$

$$28. 18 \times 1 + 11 \times 1 + 16 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 =$$

SUBTRACTION.

(29)	(30)•	(31)	(32)
636,416	327,646	275,890	448,486
124,106	310,141	13,150	316,136
-----	-----	-----	-----

(33)	(34)	(35)
727,675	875,584	965,006
313,613	613,372	12,000
-----	-----	-----

LESSON CXXXI.

NOTE.—The teacher may dictate these examples for slate or board work.

(1)	(2)	(3)	(4)	(5)
224,141	141,414	716,437	345,678	212,003
86,375	27,366	24,343	91	36,367
136,073	2,843	514	1,241	115,115
24,306	137	29	24,316	24,133
186	29	1,327	113,734	113,233

(6)	(7)	(8)	(9)	(10)
334,321	116,126	212,284	315,346	143,275
76	284,316	166,375	27,218	24,680
164	153,075	182,936	115,437	123,456
1,342	218,413	155,437	24,364	36,925
21,518	146,373	126,315	123,372	135,791

SUBTRACTION.

(11)	(12)	(13)	(14)	(15)
346,347	766,387	509,686	164,837	572,906
121,124	224,130	313,270	23,616	131,005

(16)	(17)	(18)	(19)	(20)
275,843	116,184	987,654	296,364	843,346
1,321	23	321,123	172,123	121,124

LESSON CXXXII.

1. $9 \times 6 + 8 \times 7 =$

3. $6 \times 9 + 12 \times 7 =$

2. $11 \times 7 + 5 \times 8 =$

4. $8 \times 9 + 7 \times 6 =$

- | | |
|-----------------------------------|-------------------|
| 5. $9 \times 5 + 6 \times 12 =$ | 26. 1,364 = |
| 6. $8 \times 7 + 5 \times 9 =$ | 27. 2,909 = |
| 7. $7 \times 8 + 6 \times 11 =$ | 28. 3,546 = |
| 8. $12 \times 8 + 6 \times 8 =$ | 29. 1,816 = |
| 9. $3 \times 12 + 12 \times 8 =$ | 30. 2,465 = |
| 10. $9 \times 7 + 8 \times 6 =$ | 31. 1,624 = |
| 11. $11 \times 11 + 5 \times 7 =$ | 32. 783 = |
| 12. $10 \times 8 + 9 \times 5 =$ | 33. 3,256 = |
| 13. $8 \times 11 + 11 \times 6 =$ | 34. 1,018 = |
| 14. $12 \times 7 + 6 \times 8 =$ | 35. 2,193 = |
| 15. $7 \times 11 + 6 \times 10 =$ | 36. MCMXCIV = |
| 16. $9 \times 6 + 12 \times 9 =$ | 37. MMCCVIII = |
| 17. $11 \times 9 + 8 \times 6 =$ | 38. MMMCDLXVI = |
| 18. $7 \times 12 + 7 \times 12 =$ | 39. DCCCLXXXVII = |
| 19. $11 \times 9 + 9 \times 8 =$ | 40. MDCLXVI = |
| 20. $10 \times 7 + 6 \times 11 =$ | 41. DCCLVIII = |
| 21. $9 \times 12 + 8 \times 6 =$ | 42. MCXLIX = |
| 22. $7 \times 9 + 8 \times 11 =$ | 43. MMMDV = |
| 23. $9 \times 6 + 12 \times 7 =$ | 44. MX = |
| 24. $5 \times 11 + 8 \times 12 =$ | 45. MMMXIX = |
| 25. $6 \times 12 + 8 \times 9 =$ | |

LESSON CXXXIII.

- $11 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 16 \times 1 + 17 \times 1 + 18 \times 1 =$
- $12 \times 1 + 9 \times 1 + 8 \times 1 + 11 \times 1 + 7 \times 1 + 12 \times 1 + 8 \times 1 + 12 \times 1 =$

3. $13 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 + 13 \times 1 + 9 \times 1 + 11 \times 1 + 7 \times 1 =$
4. $10 \times 1 + 23 \times 1 + 11 \times 1 + 9 \times 1 + 12 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 =$
5. $21 \times 1 + 22 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 10 \times 1 =$
6. $13 \times 1 + 14 \times 1 + 13 \times 1 + 14 \times 1 + 13 \times 1 + 14 \times 1 + 13 \times 1 + 14 \times 1 =$
7. $12 \times 1 + 12 \times 1 + 12 \times 1 + 13 \times 1 + 13 \times 1 + 13 \times 1 + 14 \times 1 + 14 \times 1 =$
8. $15 \times 1 + 15 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 9 \times 1 + 6 \times 1 + 5 \times 1 =$
9. $7 \times 1 + 17 \times 1 + 6 \times 1 + 16 \times 1 + 8 \times 1 + 18 \times 1 + 5 \times 1 + 15 \times 1 =$
10. $9 \times 1 + 9 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 13 \times 1 =$
11. $12 \times 1 + 11 \times 1 + 10 \times 1 + 21 \times 1 + 9 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 =$
12. $13 \times 1 + 13 \times 1 + 13 \times 1 + 11 \times 1 + 11 \times 1 + 14 \times 1 + 12 \times 1 + 11 \times 1 =$
13. $12 \times 1 + 21 \times 1 + 12 \times 1 + 22 \times 1 + 20 \times 1 + 13 \times 1 + 13 \times 1 + 12 \times 1 =$
14. $10 \times 1 + 11 \times 1 + 10 \times 1 + 11 \times 1 + 10 \times 1 + 11 \times 1 + 10 \times 1 + 11 \times 1 =$
15. $23 \times 1 + 16 \times 1 + 11 \times 1 + 21 \times 1 + 14 \times 1 + 13 \times 1 + 9 \times 1 + 13 \times 1 =$
16. $14 \times 1 + 9 \times 1 + 6 \times 1 + 13 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 12 \times 1 =$

17. $13 \times 1 + 13 \times 1 + 14 \times 1 + 14 \times 1 + 12 \times 1 + 12 \times 1 + 15 \times 1 + 15 \times 1 =$
18. $12 \times 1 + 12 \times 1 + 12 \times 1 + 13 \times 1 + 13 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 =$
19. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 11 \times 1 + 12 \times 1 + 9 \times 1 + 12 \times 1 =$
20. $21 \times 1 + 21 \times 1 + 9 \times 1 + 6 \times 1 + 7 \times 1 + 11 \times 1 + 13 \times 1 + 10 \times 1 =$
21. $9 \times 8 + 7 \times 6 + 3 \times 3 =$
22. $8 \times 8 + 7 \times 7 + 2 \times 3 =$
23. $9 \times 6 + 6 \times 7 + 3 \times 5 =$
24. $10 \times 4 + 5 \times 8 + 6 \times 2 =$
25. $7 \times 4 + 7 \times 3 + 7 \times 2 =$
26. $5 \times 8 + 9 \times 7 + 3 \times 4 =$
27. $8 \times 9 + 9 \times 3 + 7 \times 2 =$
28. $6 \times 8 + 8 \times 6 + 3 \times 5 =$
29. $9 \times 5 + 7 \times 8 + 3 \times 4 =$
30. $12 \times 7 + 8 \times 3 + 5 \times 2 =$

LESSON CXXXIV.

EXPLANATORY.—For three or four days before beginning to teach subtraction where the figure in the subtrahend is larger than the corresponding figure in the minuend, the children “keep store.” One of the children is “store-keeper” and has pieces of braid, ribbons, spools of thread, little dolls, marbles, etc. The “mother” sends one of the children to the store to buy any one of the articles (each of which costs less than ten cents), giving her a ten cent piece and some pennies. For instance, if the child is to

buy a seven cent stick of braid, the mother gives her a ten cent piece and one, two, three, four, five, or six, pennies. If the child has 14 cents, she steps to the board and writes 14 cents and then writes 7 cents under the 14 cents, thus:—

$$\begin{array}{r} 14 \text{ cts.} \\ \underline{7 \text{ cts.}} \end{array}$$

She then goes to the store and hands the storekeeper the ten cents, saying, "I want a 7 cent stick of braid"; she gets the braid and 3 cts. change which she puts with the 4 cts. she has in her hand, making 7 cts. The teacher says, "Why didn't you give the storekeeper the 14 cts.?" The child laughs and says, "Why, I could get it with the 10 cts. He would have given me the 4 cts. back if I had." The teacher says, "Why didn't you give him the 4 cents?" The child says, "It wasn't enough. I couldn't buy the braid for that." The teacher says, "Step to the board and explain it to us." The child steps to the board on which she had written 14 cts. and says (with help from

$$\begin{array}{r} 14 \text{ cts.} \\ \underline{7 \text{ cts.}} \end{array}$$

the teacher if necessary), "I went to the store with 14 cts. to buy a 7 cent stick of braid. I cannot take 7 cts. from 4 cts., so I take 7 cts. from 10 cts. which leaves 3 cts.; 3 cts. and 4 cts. are 7 cts." and puts 7 cts. for the answer; thus:—

$$\begin{array}{r} 14 \text{ cts.} \\ \underline{7 \text{ cts.}} \\ 7 \text{ cts.} \end{array}$$

in the class can go to the store, buy any article there, and put the example on the board, and explain the example. In an example like the following 87,653 the child says, "I

$$\begin{array}{r} 87,653 \\ \underline{13,726} \end{array}$$

cannot take 6 from 3 so I take 6 from 10 which leaves 4; 4 and 3 are 7." The teacher says, "When you take from 10, call the next lower figure one more." The child then says, "3 from 5 leaves 2. I cannot take 7 from 6, so

I take 7 from 10 which leaves 3; 3 and 6 are 9; 4 from 7 leaves 3, 1 from 8 leaves 7.

1. There are 12 boys in each of 9 rows; how many boys in the 9 rows?

2. I spent at one time 13 cts., at another time 25 cts., at another time 16 cts., and at another time 10 cts.; how much money did I spend?

3. John ran 54 feet in the morning and 76 feet in the afternoon; how many feet did he run during the day?

4. How many feet in 9 yards?

5. James is 18 years old and his sister is 3 years younger; how old is his sister?

(6)	(7)	(8)	(9)
325,186	418,416	464,321	584,367
84,275	30,095	25,909	219,897
149,356	276	116,354	31,967
213,845	1,384	2,755	257
243	124,275	11,111	4,447
<hr/>	<hr/>	<hr/>	<hr/>

SUBTRACTION.

(10)	(11)	(12)	(13)
726,184	584,843	444,340	116,875
116,126	271,134	121,016	4,136
<hr/>	<hr/>	<hr/>	<hr/>
(14)	(15)	(16)	(17)
286,763	726,637	809,376	256,843
131,417	515,519	703,137	133,715
<hr/>	<hr/>	<hr/>	<hr/>

LESSON CXXXV.

1. $2 \times 12 + 3 \times 12 + 2 \times 12 + 4 \times 12 =$
2. $3 \times 12 + 3 \times 12 + 3 \times 12 + 3 \times 12 =$
3. $2 \times 12 + 1 \times 12 + 3 \times 12 + 1 \times 12 =$
4. $1 \times 12 + 2 \times 12 + 3 \times 12 + 4 \times 12 =$
5. $2 \times 12 + 2 \times 12 + 1 \times 12 + 2 \times 12 =$
6. $2 \times 12 + 2 \times 12 + 2 \times 12 + 2 \times 12 =$
7. $1 \times 12 + 2 \times 12 + 4 \times 12 + 2 \times 12 =$
8. $3 \times 11 + 2 \times 11 + 3 \times 11 + 3 \times 11 =$
9. $2 \times 11 + 4 \times 11 + 4 \times 11 + 2 \times 11 =$
10. $3 \times 11 + 3 \times 11 + 1 \times 11 + 3 \times 11 =$
11. $1 \times 11 + 2 \times 11 + 4 \times 11 + 2 \times 11 =$
12. $2 \times 11 + 2 \times 11 + 2 \times 11 + 2 \times 11 =$
13. $1 \times 11 + 1 \times 11 + 1 \times 11 + 7 \times 11 =$
14. $3 \times 10 + 3 \times 10 + 3 \times 10 + 3 \times 10 =$
15. $2 \times 10 + 3 \times 10 + 4 \times 10 + 3 \times 10 =$
16. $3 \times 10 + 1 \times 10 + 1 \times 10 + 5 \times 10 =$
17. $1 \times 10 + 3 \times 10 + 3 \times 10 + 4 \times 10 =$
18. $2 \times 10 + 3 \times 10 + 1 \times 10 + 1 \times 10 =$
19. $3 \times 9 + 4 \times 9 + 2 \times 9 + 3 \times 9 =$
20. $2 \times 9 + 1 \times 9 + 1 \times 9 + 3 \times 9 =$
21. $2 \times 9 + 2 \times 9 + 3 \times 9 + 3 \times 9 =$
22. $3 \times 9 + 3 \times 9 + 2 \times 9 + 3 \times 9 =$
23. $1 \times 9 + 2 \times 9 + 3 \times 9 + 1 \times 9 =$
24. $2 \times 9 + 2 \times 9 + 2 \times 9 + 2 \times 9 =$
25. $1 \times 9 + 3 \times 9 + 3 \times 9 + 2 \times 9 =$
26. $3 \times 8 + 4 \times 8 + 1 \times 8 + 2 \times 8 =$

27. $2 \times 8 + 3 \times 8 + 3 \times 8 + 3 \times 8 =$

28. $2 \times 8 + 3 \times 8 + 4 \times 8 + 3 \times 8 =$

29. $7 \times 9 + 8 \times 7 =$

30. $6 \times 11 + 12 \times 5 =$

31. $9 \times 8 + 7 \times 12 =$

32. $6 \times 12 + 12 \times 8 =$

33. $9 \times 9 + 7 \times 7 =$

34. $8 \times 9 + 11 \times 7 =$

35. $7 \times 12 + 12 \times 8 =$

36. $9 \times 6 + 8 \times 9 =$

37. $8 \times 12 + 7 \times 6 =$

38. $9 \times 9 + 8 \times 10 =$

39. $11 \times 10 + 8 \times 7 =$

40. $12 \times 8 + 10 \times 9 =$

41. $8 \times 7 + 7 \times 7 =$

42. $9 \times 8 + 8 \times 11 =$

43. $6 \times 12 + 11 \times 5 =$

44. $9 \times 3 + 12 \times 12 =$

45. $11 \times 11 + 7 \times 6 =$

LESSON CXXXVI.

1. MMCMXXVIII=	11. 2,436=
2. MDCCCLXIV=	12. 1,872=
3. MMMCDXLVI=	13. 3,954=
4. CCCLXXXVIII=	14. 1,630=
5. MDCXII=	15. 2,705=
6. MMDCCXLIII=	16. 3,389=
7. CCII=	17. 1,118=
8. MDXIX=	18. 1,111=
9. MMCXCVI=	19. 3,590=
10. MCCXXVII=	20. 2,002=

21. $8 \times 9 + 7 \times 6 + 3 \times 7 =$
22. $9 \times 10 + 7 \times 7 + 6 \times 3 =$
23. $8 \times 11 + 6 \times 9 + 5 \times 3 =$
24. $9 \times 6 + 6 \times 8 + 7 \times 2 =$
25. $10 \times 7 + 9 \times 5 + 8 \times 2 =$
26. $7 \times 7 + 8 \times 8 + 5 \times 5 =$
27. $9 \times 9 + 6 \times 3 + 3 \times 4 =$
28. $12 \times 7 + 3 \times 8 + 5 \times 2 =$
29. $9 \times 6 + 6 \times 8 + 3 \times 3 =$
30. $10 \times 8 + 6 \times 9 + 5 \times 3 =$
31. $8 \times 7 + 7 \times 6 + 6 \times 2 =$
32. $9 \times 8 + 7 \times 8 + 3 \times 8 =$
33. $8 \times 6 + 6 \times 7 + 4 \times 2 =$
34. $7 \times 12 + 6 \times 6 + 3 \times 3 =$
35. $8 \times 11 + 7 \times 5 + 6 \times 2 =$

(36)	(37)	(38)	(39)	(40)
631,846	225,164	112,873	235,006	515,151
27,586	133,726	76,346	120,309	34,343
9,376	218,457	124,275	207,063	272,727
486	146,378	35,846	35,184	28,282
76	137,249	127,225	2,863	767

LESSON CXXXVII.

1. $13 \times 1 + 11 \times 1 + 7 \times 1 + 8 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 =$
2. $12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 =$

3. $11 \times 1 + 14 \times 1 + 13 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 11 \times 1 =$
4. $9 \times 1 + 11 \times 1 + 12 \times 1 + 9 \times 1 + 9 \times 1 + 13 \times 1 + 14 \times 1 + 9 \times 1 =$
5. $12 \times 1 + 11 \times 1 + 10 \times 1 + 6 \times 1 + 7 \times 1 + 9 \times 1 + 10 \times 1 + 12 \times 1 =$
6. $13 \times 1 + 11 \times 1 + 6 \times 1 + 8 \times 1 + 7 \times 1 + 11 \times 1 + 7 \times 1 + 11 \times 1 =$
7. $8 \times 1 + 9 \times 1 + 7 \times 1 + 6 \times 1 + 12 \times 1 + 11 \times 1 + 8 \times 1 + 6 \times 1 =$
8. $12 \times 1 + 12 \times 1 + 12 \times 1 + 13 \times 1 + 6 \times 1 + 11 \times 1 + 7 \times 1 + 11 \times 1 =$
9. $13 \times 1 + 14 \times 1 + 16 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 10 \times 1 =$
10. $14 \times 1 + 13 \times 1 + 7 \times 1 + 5 \times 1 + 7 \times 1 + 9 \times 1 + 6 \times 1 + 11 \times 1 =$
11. $16 \times 1 + 13 \times 1 + 11 \times 1 + 7 \times 1 + 11 \times 1 + 10 \times 1 + 13 \times 1 + 9 \times 1 =$
12. $9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 5 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 =$
13. $7 \times 1 + 6 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 + 11 \times 1 + 7 \times 1 =$
14. $7 \times 1 + 8 \times 1 + 9 \times 1 + 10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 =$
15. $10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 =$
16. $9 \times 1 + 9 \times 1 + 11 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 11 \times 1 + 11 \times 1 =$

17. $7 \times 1 + 6 \times 1 + 13 \times 1 + 9 \times 1 + 8 \times 1 + 17 \times 1 + 6 \times 1 + 8 \times 1 =$
18. $8 \times 1 + 11 \times 1 + 8 \times 1 + 7 \times 1 + 10 \times 1 + 9 \times 1 + 7 \times 1 + 11 \times 1 =$
19. $6 \times 1 + 12 \times 1 + 8 \times 1 + 9 \times 1 + 11 \times 1 + 15 \times 1 + 6 \times 1 + 9 \times 1 =$
20. $8 \times 1 + 13 \times 1 + 9 \times 1 + 12 \times 1 + 8 \times 1 + 14 \times 1 + 7 \times 1 + 15 \times 1 =$
21. $9 \times 6 + 7 \times 3 + 5 \times 8 =$
22. $7 \times 9 + 8 \times 7 + 6 \times 4 =$
23. $9 \times 7 + 8 \times 6 + 3 \times 3 =$
24. $8 \times 11 + 6 \times 9 + 4 \times 4 =$
25. $8 \times 7 + 12 \times 6 + 7 \times 2 =$
26. $9 \times 10 + 7 \times 6 + 3 \times 5 =$
27. $8 \times 5 + 9 \times 7 + 7 \times 3 =$
28. $7 \times 8 + 6 \times 7 + 9 \times 2 =$
29. $11 \times 7 + 8 \times 6 + 6 \times 3 =$
30. $9 \times 9 + 8 \times 8 + 7 \times 7 =$
31. $7 \times 5 + 12 \times 6 + 3 \times 8 =$
32. $9 \times 6 + 6 \times 11 + 7 \times 2 =$
33. $4 \times 12 + 12 \times 8 + 3 \times 5 =$
34. $9 \times 7 + 7 \times 12 + 2 \times 10 =$
35. $10 \times 11 + 6 \times 6 + 5 \times 3 =$

LESSON CXXXVIII.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
727,618	976,875	584,467	764,673	817,780
413,309	325,436	321,238	332,317	603,209

(6)	(7)	(8)	(9)	(10)
432,937	582,728	775,956	329,676	287,645
321,618	361,619	613,727	116,329	133,216

- | | |
|---|-----------------------------------|
| 11. $8 \times 9 + 6 \times 8 =$ | 21. $12 \times 6 + 7 \times 7 =$ |
| 12. $9 \times 7 + 6 \times 7 =$ | 22. $7 \times 10 + 6 \times 11 =$ |
| 13. $8 \times 5 + 9 \times 11 =$ | 23. $11 \times 11 + 5 \times 9 =$ |
| 14. $12 \times 6 + 7 \times 5 =$ | 24. $10 \times 11 + 6 \times 8 =$ |
| 15. $8 \times 9 + 9 \times 8 =$ | 25. $3 \times 9 + 7 \times 6 =$ |
| 16. $11 \times 11 + 7 \times 6 =$ | 26. $9 \times 5 + 8 \times 4 =$ |
| 17. $9 \times 9 + 5 \times 11 =$ | 27. $7 \times 8 + 11 \times 9 =$ |
| 18. $12 \times 8 + 9 \times 6 =$ | 28. $12 \times 6 + 6 \times 8 =$ |
| 19. $8 \times 11 + 11 \times 6 =$ | 29. $9 \times 8 + 11 \times 7 =$ |
| 20. $7 \times 9 + 10 \times 8 =$ | 30. $6 \times 12 + 12 \times 6 =$ |
| 31. $9x + 7x + 5x + 6x = 27x.$ | |
| 32. $9x - 7x + 5x - 3x =$ | |
| 33. $11xy + 6xy - 7xy + 2x =$ | |
| 34. $8ab + 6ab + 3ab + 2a =$ | |
| 35. $9xy - 3xy + 2x - 1x =$ | |
| 36. $7x^2y^2 + 6x^2y^2 + 5x^2y - 2x^2y =$ | |
| 37. $6x + 7x^2 + 5x + 3x^2 =$ | |

LESSON CXXXIX.

1. James has 46 marbles, Charlie has 37 marbles, and John has 52 marbles; how many marbles have they all?

2. Lucy hopped 12 feet, and Kate hopped 7

times as many feet; how many feet did Kate hop?

3. A boy had 2 twenty-five cent pieces, 4 five-cent pieces, 2 ten-cent pieces, and 5 pennies; how many cents did he have?

4. Mary ate 4 apples a day for 5 days, and then ate 5 apples a day for 4 days; how many apples did she eat during the 9 days?

5. At 7 for one cent, how many marbles can be bought for 8 cents?

SUBTRACTION.

(6)	(7)	(8)	(9)	(10)
937,941	543,724	245,678	116,686	445,676
831,126	213,219	31,139	113,217	313,218
-----	-----	-----	-----	-----
(11)	(12)	(13)	(14)	(15)
676,754	376,675	420,064	939,216	212,064
213,725	123,456	120,005	812,119	111,018
-----	-----	-----	-----	-----
(16)	(17)	(18)	(19)	(20)
316,646	286,684	434,726	761,693	176,466
113,317	135,617	113,617	111,246	121,128
-----	-----	-----	-----	-----

LESSON CXL.

(1)	(2)	(3)	(4)	(5)
346,146	146	347,218	234,275	156,432
148,876	2,726	123,793	128,846	243,518
213,946	14,864	124,376	345,342	6,724
36,726	213,843	154,529	20,966	34,156
3,286	79,444	24,133	3,425	118,218
-----	-----	-----	-----	-----

(6)	(7)	(8)	(9)	(10)
725,986	636,427	415,276	346,275	543,728
113,424	213,346	312,134	133,432	413,346

(11)	(12)	(13)	(14)	(15)
275,413	896,013	316,164	359,676	498,464
4,443	772,043	143,412	133,216	143,313

- | | |
|-----------------------------------|-----------------------------------|
| 16. $6 \times 7 + 11 \times 10 =$ | 21. $7 \times 8 + 9 \times 10 =$ |
| 17. $12 \times 8 + 8 \times 7 =$ | 22. $8 \times 11 + 11 \times 8 =$ |
| 18. $9 \times 6 + 7 \times 10 =$ | 23. $12 \times 9 + 9 \times 12 =$ |
| 19. $9 \times 5 + 12 \times 7 =$ | 24. $7 \times 6 + 8 \times 12 =$ |
| 20. $8 \times 12 + 9 \times 6 =$ | 25. $9 \times 6 + 7 \times 9 =$ |

LESSON CXLI.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
125,128	376,145	456,741	276,464	506,184
113,149	121,416	127,127	118,418	131,724

(6)	(7)	(8)	(9)	(10)
372,054	673,846	276,346	413,416	216,116
127,146	134,187	181,417	127,119	181,141

(11)	(12)	(13)	(14)	(15)
318,416	414,372	373,461	517,286	726,864
181,181	181,416	148,137	137,138	131,729

(16)	(17)	(18)	(19)	(20)
376,843	416,316	276,616	316,724	256,143
186,175	184,727	148,133	131,183	127,241

LESSON CXLII.

SUBTRACTION.

(1)	(2)	(3)	(4)	(5)
276,008	348,165	514,726	400,161	356,182
145,101	127,159	181,154	120,147	171,210

(6)	(7)	(8)	(9)	(10)
678,100	127,386	576,164	637,285	414,184
154,910	110,417	181,007	141,314	121,716

(11)	(12)	(13)	(14)	(15)
554,800	725,184	327,144	710,812	325,791
116,120	131,716	151,218	120,156	181,129

16. $9 \times 8 + 7 \times 6 + 5 \times 8 =$
17. $3 \times 12 + 6 \times 9 + 4 \times 4 =$
18. $11 \times 11 + 4 \times 5 + 7 \times 2 =$
19. $6 \times 4 + 3 \times 8 + 5 \times 7 =$
20. $8 \times 8 + 7 \times 4 + 6 \times 6 =$
21. $3 \times 2 + 8 \times 5 + 4 \times 1 =$
22. $9 \times 9 + 3 \times 7 + 6 \times 2 =$
23. $10 \times 10 + 5 \times 8 + 6 \times 3 =$
24. $7 \times 7 + 3 \times 9 + 5 \times 8 =$
25. $8 \times 5 + 11 \times 1 + 6 \times 10 =$

26. $7 \times 2 + 5 \times 6 + 8 \times 7 + 3 \times 1 =$
27. $6 \times 6 + 4 \times 4 + 9 \times 2 + 7 \times 6 =$
28. $5 \times 8 + 3 \times 7 + 11 \times 4 + 6 \times 6 =$
29. $10 \times 10 + 4 \times 7 + 3 \times 9 + 2 \times 2 =$
30. $9 \times 7 + 3 \times 8 + 4 \times 4 + 5 \times 4 =$
31. $6 \times 5 + 9 \times 7 + 6 \times 5 + 10 \times 1 =$
32. $8 \times 4 + 6 \times 2 + 7 \times 3 + 2 \times 9 =$
33. $7 \times 11 + 3 \times 4 + 2 \times 9 + 4 \times 4 =$
34. $6 \times 3 + 5 \times 8 + 11 \times 3 + 5 \times 9 =$
35. $5 \times 4 + 3 \times 6 + 5 \times 7 + 7 \times 3 =$

LESSON CXLIII.

1. $7 \times 8 + 5 \times 9 + 3 \times 3 =$
2. $9 \times 7 + 8 \times 6 + 5 \times 2 =$
3. $11 \times 5 + 9 \times 7 + 4 \times 4 =$
4. $8 \times 6 + 12 \times 5 + 3 \times 7 =$
5. $12 \times 7 + 8 \times 6 + 2 \times 6 =$
6. $9 \times 8 + 7 \times 7 + 9 \times 2 =$
7. $10 \times 8 + 9 \times 5 + 3 \times 5 =$
8. $9 \times 4 + 12 \times 8 + 2 \times 7 =$
9. $10 \times 6 + 7 \times 5 + 5 \times 5 =$
10. $8 \times 11 + 9 \times 4 + 4 \times 6 =$
11. $4 \times 12 + 12 \times 6 + 3 \times 7 =$
12. $8 \times 11 + 7 \times 5 + 2 \times 4 =$
13. $9 \times 6 + 7 \times 8 + 3 \times 3 =$
14. $7 \times 11 + 8 \times 9 + 4 \times 2 =$
15. $9 \times 6 + 7 \times 8 + 5 \times 5 =$

16. $5 \times 8 + 4 \times 9 + 3 \times 7 =$
 17. $11 \times 12 + 12 \times 4 + 5 \times 2 =$
 18. $7 \times 3 + 11 \times 11 + 4 \times 3 =$
 19. $9 \times 6 + 6 \times 5 + 3 \times 7 =$
 20. $4 \times 8 + 8 \times 7 + 2 \times 6 =$

(21)	(22)	(23)	(24)	(25)
363,517	240,351	345,162	437,216	518,464
124,121	126,148	127,143	143,182	327,110

(26)	(27)	(28)	(29)
313,003	215,412	352,373	518,416
127,110	131,121	122,416	72,131

LESSON CXLIV.

- $3 \times 12 + 3 \times 12 + 4 \times 12 =$
- $2 \times 12 + 3 \times 12 + 3 \times 12 =$
- $4 \times 12 + 4 \times 12 + 4 \times 12 =$
- $2 \times 12 + 2 \times 12 + 2 \times 12 =$
- $1 \times 12 + 2 \times 12 + 1 \times 12 =$
- $1 \times 12 + 3 \times 12 + 5 \times 12 =$
- $2 \times 12 + 2 \times 12 + 1 \times 12 =$
- $1 \times 12 + 1 \times 12 + 1 \times 12 =$
- $2 \times 12 + 5 \times 12 + 4 \times 12 =$
- $1 \times 12 + 3 \times 12 + 3 \times 12 =$
- $4 \times 11 + 4 \times 11 + 3 \times 11 =$
- $2 \times 11 + 3 \times 11 + 5 \times 11 =$
- $3 \times 11 + 5 \times 11 + 4 \times 11 =$

14. $2 \times 11 + 3 \times 11 + 4 \times 11 =$
15. $1 \times 11 + 2 \times 11 + 3 \times 11 =$
16. $3 \times 10 + 2 \times 10 + 2 \times 10 =$
17. $2 \times 10 + 3 \times 10 + 5 \times 10 =$
18. $3 \times 10 + 3 \times 10 + 3 \times 10 =$
19. $2 \times 10 + 1 \times 10 + 2 \times 10 =$
20. $1 \times 10 + 5 \times 10 + 6 \times 10 =$
21. $1 \times 10 + 2 \times 10 + 1 \times 10 =$
22. $3 \times 10 + 4 \times 10 + 1 \times 10 =$
23. $2 \times 10 + 2 \times 10 + 2 \times 10 =$
24. $1 \times 10 + 1 \times 10 + 1 \times 10 =$
25. $3 \times 10 + 4 \times 10 + 3 \times 10 =$
26. $2 \times 10 + 4 \times 10 + 5 \times 10 =$
27. $3 \times 10 + 4 \times 10 + 5 \times 10 =$
28. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
29. $3 \times 9 + 3 \times 9 + 3 \times 9 =$
30. $2 \times 9 + 2 \times 9 + 2 \times 9 =$
31. $4 \times 9 + 4 \times 9 + 4 \times 9 =$
32. $2 \times 9 + 4 \times 9 + 2 \times 9 =$
33. $3 \times 9 + 3 \times 9 + 4 \times 9 =$
34. $2 \times 9 + 1 \times 9 + 1 \times 9 =$
35. $1 \times 9 + 2 \times 9 + 2 \times 9 =$
36. $3 \times 9 + 2 \times 9 + 2 \times 9 =$
37. $4 \times 9 + 5 \times 9 + 2 \times 9 =$
38. $1 \times 8 + 3 \times 8 + 2 \times 8 =$
39. $4 \times 8 + 4 \times 8 + 3 \times 8 =$
40. $2 \times 8 + 5 \times 8 + 3 \times 8 =$

41. $3 \times 8 + 2 \times 8 + 4 \times 8 =$

42. $1 \times 8 + 3 \times 8 + 4 \times 8 =$

43. $2 \times 8 + 3 \times 8 + 2 \times 8 =$

44. $1 \times 8 + 2 \times 8 + 3 \times 8 =$

45. $2 \times 8 + 1 \times 8 + 2 \times 8 =$

46. $1 \times 8 + 1 \times 8 + 2 \times 8 =$

47. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

48. $4 \times 7 + 5 \times 7 + 3 \times 7 =$

49. $2 \times 7 + 3 \times 7 + 4 \times 7 =$

50. $1 \times 7 + 3 \times 7 + 4 \times 7 =$

SUBTRACTION.

(51)	(52)	(53)	(54)	(55)
367,218	738,646	416,067	276,375	570,050
149,146	133,493	133,819	118,416	133,126

(56)	(57)	(58)	(59)	(60)
676,003	116,764	439,376	356,164	518,473
128,004	31,396	183,727	163,276	125,146

LESSON CXLV.

1. $1 \times 7 + 1 \times 7 + 1 \times 7 =$

2. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

3. $1 \times 7 + 2 \times 7 + 2 \times 7 =$

4. $2 \times 7 + 2 \times 7 + 2 \times 7 =$

5. $2 \times 7 + 2 \times 7 + 3 \times 7 =$

6. $3 \times 7 + 3 \times 7 + 2 \times 7 =$

7. $4 \times 7 + 4 \times 7 + 1 \times 7 =$
8. $3 \times 7 + 3 \times 7 + 4 \times 7 =$
9. $2 \times 7 + 3 \times 7 + 6 \times 7 =$
10. $3 \times 7 + 3 \times 7 + 6 \times 7 =$
11. $1 \times 6 + 3 \times 6 + 1 \times 6 =$
12. $3 \times 6 + 5 \times 6 + 4 \times 6 =$
13. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
14. $2 \times 6 + 3 \times 6 + 4 \times 6 =$
15. $1 \times 6 + 2 \times 6 + 3 \times 6 =$
16. $1 \times 6 + 1 \times 6 + 1 \times 6 =$
17. $3 \times 6 + 2 \times 6 + 2 \times 6 =$
18. $4 \times 6 + 4 \times 6 + 2 \times 6 =$
19. $3 \times 6 + 3 \times 6 + 3 \times 6 =$
20. $3 \times 6 + 3 \times 6 + 2 \times 6 =$
21. $1 \times 5 + 3 \times 5 + 4 \times 5 =$
22. $2 \times 5 + 2 \times 5 + 1 \times 5 =$
23. $3 \times 5 + 3 \times 5 + 5 \times 5 =$
24. $1 \times 5 + 1 \times 5 + 1 \times 5 =$
25. $2 \times 5 + 3 \times 5 + 2 \times 5 =$
26. $4 \times 5 + 5 \times 5 + 3 \times 5 =$
27. $1 \times 5 + 2 \times 5 + 1 \times 5 =$
28. $2 \times 5 + 3 \times 5 + 1 \times 5 =$
29. $3 \times 5 + 2 \times 5 + 4 \times 5 =$
30. $3 \times 5 + 3 \times 5 + 5 \times 5 =$
31. $2 \times 5 + 3 \times 5 + 7 \times 5 =$
32. $1 \times 4 + 4 \times 4 + 5 \times 4 =$
33. $2 \times 4 + 3 \times 4 + 7 \times 4 =$

34. $1 \times 4 + 3 \times 4 + 5 \times 4 =$

35. $2 \times 4 + 3 \times 4 + 3 \times 4 =$

SUBTRACTION.

(36)	(37)	(38)	(39)	(40)
370,064	414,814	295,004	164,376	557,467
59,184	37,326	137,106	25,138	138,149

(41)	(42)	(43)	(44)	(45)
726,676	519,460	846,827	337,386	418,418
484,359	39,184	139,134	29,147	137,137

46. $8x^2y^2 - 6x^2y^2 =$

47. $9xy - 5xy =$

48. $11ab^2 - 5ab^2 =$

49. $7x + 9x =$

50. $13x^2y + 5x^2y =$

51. $9xy^2 + 8xy^2 =$

52. $6abc + 7abc =$

53. $9a + 7b + 5a =$

54. $6b - 5b + 7a =$

55. $11c - 6c + 9b =$

LESSON CXLVI.

1. James bought a book for 43 cts., some paper for 18 cts., and a slate for 15 cts.; how much did he pay for all?

2. This class did 59 examples Monday and 87

examples Tuesday; how many examples were done during the two days?

3. John bought 4 cts. worth of marbles at 7 for one cent, and 3 cts. worth at 5 for one cent; how many marbles did he buy?

4. A boy sold 16 papers Monday, 18 papers Tuesday, 14 papers Wednesday, 11 papers Thursday, 10 papers Friday, and 20 papers Saturday; how many papers did he sell during the week?

(5)	(6)	(7)	(8)	(9)
367,518	227,386	518,466	216,326	346,367
493	159,443	37,518	95,466	25,676
23,614	276,345	376	316,376	3,918
293,724	113,726	134,415	254,246	467
1,864	234,376	217,348	123,356	35

SUBTRACTION.

(10)	(11)	(12)	(13)
376,464	254,376	514,376	370,005
186,137	35,418	133,007	110,006

(14)	(15)	(16)	(17)
275,416	416,867	516,004	673,405
138,125	137,276	184,114	159,156

(18)	(19)	(20)
351,646	276,140	376,466
147,156	158,416	173,727

LESSON CXLVII.

1. $12 \times 1 + 13 \times 1 + 11 \times 1 + 12 \times 1 + 16 \times 1 + 8 \times 1 + 12 \times 1 + 16 \times 1 =$
2. $13 \times 1 + 14 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 11 \times 1 + 11 \times 1 + 10 \times 1 =$
3. $12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 =$
4. $13 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
5. $11 \times 1 + 13 \times 1 + 15 \times 1 + 17 \times 1 + 19 \times 1 + 21 \times 1 + 11 \times 1 + 7 \times 1 =$
6. $16 \times 1 + 15 \times 1 + 9 \times 1 + 11 \times 1 + 8 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 =$
7. $12 \times 1 + 13 \times 1 + 14 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 + 12 \times 1 + 13 \times 1 =$
8. $11 \times 1 + 10 \times 1 + 12 \times 1 + 11 \times 1 + 8 \times 1 + 11 \times 1 + 9 \times 1 + 7 \times 1 =$
9. $12 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 =$
10. $13 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 =$
11. $12 \times 1 + 14 \times 1 + 15 \times 1 + 16 \times 1 + 17 \times 1 + 18 \times 1 + 17 \times 1 + 18 \times 1 =$
12. $11 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 16 \times 1 + 17 \times 1 + 18 \times 1 =$
13. $12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 =$

14. $14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 =$
15. $15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 =$
16. $7 \times 8 + 5 \times 6 + 4 \times 4 =$
17. $9 \times 3 + 8 \times 4 + 7 \times 5 =$
18. $8 \times 8 + 6 \times 6 + 5 \times 5 =$
19. $7 \times 9 + 6 \times 8 + 5 \times 3 =$
20. $10 \times 6 + 6 \times 7 + 3 \times 9 =$
21. $8 \times 5 + 9 \times 4 + 7 \times 2 =$
22. $9 \times 9 + 5 \times 7 + 6 \times 4 =$
23. $8 \times 7 + 6 \times 6 + 3 \times 8 =$
24. $7 \times 11 + 11 \times 3 + 3 \times 11 =$
25. $8 \times 5 + 9 \times 4 + 10 \times 3 =$
26. $11 \times 6 + 6 \times 8 + 3 \times 7 =$
27. $9 \times 5 + 5 \times 8 + 8 \times 4 =$
28. $7 \times 6 + 6 \times 7 + 7 \times 6 =$
29. $5 \times 12 + 4 \times 8 + 3 \times 11 =$
30. $9 \times 6 + 7 \times 3 + 5 \times 8 =$

SUBTRACTION.

(31)	(32)	(33)	(34)	(35)
276,643	751,643	646,346	336,185	435,270
128,153	125,716	187,173	144,217	183,167
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

LESSON CXLVIII.

1. $3 \times 12 + 3 \times 12 + 3 \times 12 =$
2. $4 \times 12 + 4 \times 12 + 4 \times 12 =$

3. $2 \times 12 + 2 \times 12 + 2 \times 12 =$
4. $1 \times 12 + 3 \times 12 + 7 \times 12 =$
5. $2 \times 12 + 3 \times 12 + 5 \times 12 =$
6. $3 \times 12 + 3 \times 12 + 2 \times 12 =$
7. $2 \times 12 + 3 \times 12 + 2 \times 12 =$
8. $1 \times 12 + 2 \times 12 + 2 \times 12 =$
9. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
10. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
11. $2 \times 11 + 3 \times 11 + 6 \times 11 =$
12. $2 \times 11 + 3 \times 11 + 7 \times 11 =$
13. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
14. $3 \times 10 + 5 \times 10 + 3 \times 10 =$
15. $2 \times 10 + 3 \times 10 + 7 \times 10 =$
16. $1 \times 10 + 3 \times 10 + 6 \times 10 =$
17. $3 \times 9 + 5 \times 9 + 4 \times 9 =$
18. $2 \times 9 + 3 \times 9 + 5 \times 9 =$
19. $3 \times 9 + 3 \times 9 + 5 \times 9 =$
20. $2 \times 9 + 3 \times 9 + 4 \times 9 =$
21. $3 \times 9 + 3 \times 9 + 2 \times 9 =$
22. $2 \times 9 + 1 \times 9 + 4 \times 9 =$
23. $3 \times 9 + 1 \times 9 + 2 \times 9 =$
24. $1 \times 9 + 1 \times 9 + 3 \times 9 =$
25. $2 \times 9 + 1 \times 9 + 1 \times 9 =$

(26)

(27)

(28)

(29)

(30)

335,146

415,014

446,738

514,637

325,791

127,217

133,216

218,375

123,716

106,187

(31)	(32)	(33)	(34)	(35)
276,376	726,938	286,676	335,725	193,761
149,728	95,146	137,158	144,873	128,376
(36)	(37)	(38)	(39)	(40)
543,210	506,709	297,386	333,333	275,186
123,456	183,185	138,487	123,043	166,276
(41)	(42)	(43)	(44)	(45)
345,678	218,617	514,376	214,006	376,413
134,546	154,396	25,413	73,864	185,575
276,375	376	115,735	128,726	36,656
145,184	1,543	94,366	35,376	7,284
376,354	245,376	3,736	218,444	966

LESSON CXLIX.

- $12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 16 \times 1 + 17 \times 1 + 18 \times 1 + 19 \times 1 =$
- $13 \times 1 + 13 \times 1 + 13 \times 1 + 13 \times 1 + 13 \times 1 + 13 \times 1 + 13 \times 1 + 13 \times 1 =$
- $15 \times 1 + 14 \times 1 + 15 \times 1 + 14 \times 1 + 15 \times 1 + 14 \times 1 + 15 \times 1 + 14 \times 1 =$
- $16 \times 1 + 11 \times 1 + 15 \times 1 + 13 \times 1 + 12 \times 1 + 12 \times 1 + 13 \times 1 + 15 \times 1 =$
- $13 \times 1 + 14 \times 1 + 15 \times 1 + 13 \times 1 + 11 \times 1 + 14 \times 1 + 15 \times 1 + 13 \times 1 =$
- $16 \times 1 + 16 \times 1 + 13 \times 1 + 8 \times 1 + 10 \times 1 + 9 \times 1 + 13 \times 1 + 13 \times 1 =$

7. $16 \times 1 + 13 \times 1 + 9 \times 1 + 11 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 + 9 \times 1 =$
8. $14 \times 1 + 15 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 6 \times 1 =$
9. $12 \times 1 + 13 \times 1 + 14 \times 1 + 13 \times 1 + 10 \times 1 + 13 \times 1 + 16 \times 1 + 13 \times 1 =$
10. $14 \times 1 + 17 \times 1 + 15 \times 1 + 19 \times 1 + 16 \times 1 + 18 \times 1 + 14 \times 1 + 12 \times 1 =$
11. $13 \times 1 + 14 \times 1 + 11 \times 1 + 8 \times 1 + 9 \times 1 + 11 \times 1 + 12 \times 1 + 11 \times 1 =$
12. $14 \times 1 + 9 \times 1 + 8 \times 1 + 12 \times 1 + 9 \times 1 + 12 \times 1 + 9 \times 1 + 12 \times 1 =$
13. $13 \times 1 + 12 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 =$
14. $14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 =$
15. $9 \times 1 + 10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 16 \times 1 =$
16. $11 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 =$
17. $9 \times 1 + 9 \times 1 + 10 \times 1 + 10 \times 1 + 11 \times 1 + 11 \times 1 + 12 \times 1 + 12 \times 1 =$
18. $15 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 11 \times 1 =$
19. $16 \times 1 + 13 \times 1 + 15 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 + 12 \times 1 + 13 \times 1 =$
20. $14 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 9 \times 1 + 11 \times 1 + 9 \times 1 + 12 \times 1 =$

21. $9 \times 5 + 6 \times 6 + 3 \times 3 =$

22. $8 \times 7 + 6 \times 4 + 4 \times 2 =$

23. $7 \times 7 + 3 \times 8 + 2 \times 7 =$

24. $6 \times 5 + 4 \times 8 + 3 \times 4 =$

25. $7 \times 4 + 4 \times 7 + 7 \times 4 =$

26. $8 \times 3 + 7 \times 6 + 2 \times 7 =$

27. $9 \times 10 + 5 \times 8 + 7 \times 3 =$

28. $8 \times 8 + 6 \times 6 + 3 \times 2 =$

29. $7 \times 5 + 4 \times 3 + 6 \times 2 =$

30. $5 \times 7 + 7 \times 5 + 4 \times 4 =$

31. $3 \times 9 + 6 \times 10 + 7 \times 2 =$

32. $8 \times 4 + 7 \times 3 + 5 \times 6 =$

33. $8 \times 7 + 6 \times 4 + 4 \times 4 =$

34. $9 \times 5 + 7 \times 3 + 2 \times 6 =$

35. $6 \times 3 + 8 \times 5 + 4 \times 3 =$

LESSON CL.

1. James is 18 years old and his sister is 5 years younger; how old is his sister?

2. Kate is 12 years old and her brother is 8 years older; how old is her brother?

3. George shot an arrow 12 feet and John shot an arrow 12 times as far as George did; how far did John shoot the arrow?

4. I bought 7 ounces of candy at 5 cts. per ounce, and 5 ounces of candy at 6 cts. per ounce; how much did I pay for the candy?

5. How many days in 6 weeks?
 6. How many days in 12 weeks?
 7. How many days in 9 weeks?
 8. How many weeks in 7 months?
 9. How many weeks in 9 months?
 10. How many months in 8 years?
11. $9 \times 6 + 3 \times 7 + 5 \times 5 =$
 12. $4 \times 8 + 8 \times 4 + 4 \times 8 =$
 13. $7 \times 6 + 5 \times 4 + 9 \times 2 =$
 14. $6 \times 9 + 3 \times 8 + 7 \times 3 =$
 15. $7 \times 7 + 6 \times 6 + 3 \times 4 =$
 16. $9 \times 5 + 8 \times 7 + 3 \times 3 =$
 17. $6 \times 9 + 8 \times 3 + 7 \times 2 =$
 18. $5 \times 11 + 11 \times 5 + 5 \times 11 =$
 19. $6 \times 4 + 7 \times 3 + 2 \times 6 =$
 20. $8 \times 5 + 6 \times 7 + 3 \times 8 =$

LESSON CLI.

(1)	(2)	(3)	(4)	(5)
764,346	646,309	375,184	814,617	427,643
182,719	128,107	127,616	176,395	182,716
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
(6)	(7)	(8)	(9)	(10)
514,608	345,678	676,764	272,646	414,314
137,296	181,719	138,395	137,147	185,141
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

(11)	(12)	(13)	(14)	(15)
256,731	514,613	313,215	354,137	545,354
184,697	7,296	76,384	128,764	276,604
233,383	53,542	127,354	32,356	135,724
156,142	273,420	215,433	227,265	225,424
113,375	6,384	37,666	33,715	876,674
(16)	(17)	(18)	(19)	(20)
345,678	456,789	213,735	354,301	567,843
138,729	113,326	648	766	72
54,843	254,324	156,304	218,403	432,736
237,356	27,636	275,421	37,694	127,544
112,842	376	5,864	152,061	376,385

LESSON CLII.

- $3 \times 12 + 2 \times 12 + 2 \times 12 =$
- $4 \times 12 + 3 \times 12 + 1 \times 12 =$
- $2 \times 12 + 1 \times 12 + 1 \times 12 =$
- $1 \times 12 + 1 \times 12 + 1 \times 12 =$
- $1 \times 12 + 2 \times 12 + 2 \times 12 =$
- $3 \times 12 + 4 \times 12 + 2 \times 12 =$
- $2 \times 12 + 1 \times 12 + 3 \times 12 =$
- $3 \times 12 + 3 \times 12 + 4 \times 12 =$
- $2 \times 12 + 3 \times 12 + 6 \times 12 =$
- $3 \times 12 + 3 \times 12 + 6 \times 12 =$
- $2 \times 11 + 3 \times 11 + 2 \times 11 =$
- $1 \times 11 + 1 \times 11 + 1 \times 11 =$
- $3 \times 11 + 3 \times 11 + 3 \times 11 =$

14. $2 \times 11 + 3 \times 11 + 5 \times 11 =$
15. $3 \times 11 + 4 \times 11 + 5 \times 11 =$
16. $2 \times 11 + 3 \times 11 + 6 \times 11 =$
17. $1 \times 11 + 3 \times 11 + 5 \times 11 =$
18. $3 \times 10 + 2 \times 10 + 5 \times 10 =$
19. $5 \times 10 + 4 \times 10 + 2 \times 10 =$
20. $2 \times 10 + 3 \times 10 + 7 \times 10 =$
21. $3 \times 10 + 2 \times 10 + 4 \times 10 =$
22. $1 \times 10 + 2 \times 10 + 3 \times 10 =$
23. $3 \times 9 + 1 \times 9 + 2 \times 9 =$
24. $2 \times 9 + 1 \times 9 + 1 \times 9 =$
25. $1 \times 9 + 1 \times 9 + 1 \times 9 =$
26. $2 \times 9 + 2 \times 9 + 1 \times 9 =$
27. $2 \times 9 + 3 \times 9 + 2 \times 9 =$
28. $1 \times 9 + 3 \times 9 + 4 \times 9 =$
29. $2 \times 9 + 3 \times 9 + 4 \times 9 =$
30. $3 \times 9 + 2 \times 9 + 5 \times 9 =$
31. $2 \times 9 + 3 \times 9 + 6 \times 9 =$
32. $4 \times 9 + 5 \times 9 + 3 \times 9 =$
33. $4 \times 8 + 5 \times 8 + 2 \times 8 =$
34. $3 \times 8 + 2 \times 8 + 7 \times 8 =$
35. $1 \times 8 + 3 \times 8 + 6 \times 8 =$
36. $2 \times 8 + 1 \times 8 + 6 \times 8 =$
37. $3 \times 8 + 1 \times 8 + 4 \times 8 =$
38. $2 \times 8 + 1 \times 8 + 3 \times 8 =$
39. $3 \times 8 + 1 \times 8 + 3 \times 8 =$
40. $2 \times 8 + 1 \times 8 + 2 \times 8 =$
41. $1 \times 8 + 2 \times 8 + 1 \times 8 =$

42. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

43. $3 \times 7 + 1 \times 7 + 1 \times 7 =$

44. $2 \times 7 + 3 \times 7 + 2 \times 7 =$

45. $1 \times 7 + 3 \times 7 + 5 \times 7 =$

46. $1 \times 7 + 1 \times 7 + 1 \times 7 =$

47. $2 \times 7 + 3 \times 7 + 6 \times 7 =$

48. $2 \times 7 + 1 \times 7 + 1 \times 7 =$

49. $3 \times 7 + 1 \times 7 + 2 \times 7 =$

50. $2 \times 7 + 3 \times 7 + 3 \times 7 =$

51. $2 \times 7 + 3 \times 7 + 5 \times 7 =$

52. $3 \times 7 + 3 \times 7 + 6 \times 7 =$

53. $3 \times 6 + 4 \times 6 + 5 \times 6 =$

54. $2 \times 6 + 3 \times 6 + 4 \times 6 =$

55. $3 \times 6 + 5 \times 6 + 2 \times 6 =$

56. $2 \times 6 + 1 \times 6 + 4 \times 6 =$

57. $3 \times 6 + 2 \times 6 + 3 \times 6 =$

58. $1 \times 6 + 1 \times 6 + 4 \times 6 =$

59. $1 \times 6 + 1 \times 6 + 3 \times 6 =$

60. $2 \times 6 + 1 \times 6 + 2 \times 6 =$

LESSON CLIII.

1. CMLXV =

2. MMCMXLVII =

3. MDCCXCVIII =

4. MMMCCCXXXIII =

5. MDCCCLXXXIV =

6. DCLXIX =

7. MDLXVI =

8. MMDCCCLIV =

9. MCDLXX =

10. MMMCCCXXXIII =

11. 2,956 =

12. 1,001 =

13. 3,574 =

14. 2,437 =

15. 1,010 =

16. 3,333 =

17. 4,268 =

18. 1,616 =

19. 2,770 =

20. 3,013 =

21. $6 \times 9 + 5 \times 7 + 3 \times 4 =$
22. $7 \times 7 + 6 \times 6 + 3 \times 3 =$
23. $8 \times 2 + 9 \times 5 + 7 \times 2 =$
24. $6 \times 8 + 3 \times 7 + 2 \times 5 =$
25. $7 \times 5 + 9 \times 6 + 3 \times 4 =$
26. $8 \times 7 + 6 \times 4 + 4 \times 3 =$
27. $7 \times 7 + 6 \times 6 + 2 \times 5 =$
28. $3 \times 8 + 7 \times 5 + 4 \times 4 =$
29. $9 \times 5 + 5 \times 9 + 3 \times 3 =$
30. $10 \times 7 + 6 \times 6 + 3 \times 5 =$
31. $5 \times 8 + 7 \times 11 + 6 \times 2 =$
32. $8 \times 4 + 4 \times 8 + 2 \times 7 =$
33. $5 \times 8 + 4 \times 9 + 6 \times 3 =$
34. $8 \times 7 + 6 \times 4 + 4 \times 4 =$
35. $9 \times 5 + 8 \times 6 + 3 \times 3 =$
36. $7 \times 7 + 6 \times 6 + 5 \times 5 =$
37. $8 \times 6 + 6 \times 7 + 4 \times 4 =$
38. $9 \times 11 + 11 \times 3 + 2 \times 11 =$
39. $3 \times 10 + 6 \times 8 + 7 \times 2 =$
40. $9 \times 6 + 6 \times 6 + 3 \times 4 =$

LESSON CLIV.

1. I bought 3 packs of firecrackers at 8 cts. a pack, and 4 papers of torpedoes at 7 cts. a paper; how much did I pay for all?
2. How many marbles at 3 for one cent can be bought for 12 cents?

3. William has 65 cents and Charles has 78 cents more than William; how many cents have both boys?

4. How many in 9 dozen?

5. How many pecks in 7 bushels?

$$6. 11 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 13 \times 1 + 15 \times 1 + 13 \times 1 =$$

$$7. 15 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 =$$

$$8. 21 \times 1 + 16 \times 1 + 8 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 11 \times 1 + 12 \times 1 =$$

$$9. 13 \times 1 + 13 \times 1 + 14 \times 1 + 14 \times 1 + 15 \times 1 + 15 \times 1 + 16 \times 1 + 16 \times 1 =$$

$$10. 18 \times 1 + 15 \times 1 + 13 \times 1 + 18 \times 1 + 11 \times 1 + 16 \times 1 + 10 \times 1 + 11 \times 1 =$$

$$11. 12 \times 1 + 14 \times 1 + 12 \times 1 + 17 \times 1 + 13 \times 1 + 17 \times 1 + 11 \times 1 + 13 \times 1 =$$

$$12. 13 \times 1 + 13 \times 1 + 11 \times 1 + 16 \times 1 + 13 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 =$$

$$13. 16 \times 1 + 12 \times 1 + 14 \times 1 + 15 \times 1 + 14 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 =$$

$$14. 17 \times 1 + 11 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 10 \times 1 + 14 \times 1 + 15 \times 1 =$$

$$15. 14 \times 1 + 10 \times 1 + 12 \times 1 + 13 \times 1 + 16 \times 1 + 11 \times 1 + 15 \times 1 + 16 \times 1 =$$

$$16. 12 \times 1 + 9 \times 1 + 11 \times 1 + 11 \times 1 + 17 \times 1 + 12 \times 1 + 16 \times 1 + 17 \times 1 =$$

$$17. 13 \times 1 + 11 \times 1 + 10 \times 1 + 10 \times 1 + 18 \times 1 + 13 \times 1 + 17 \times 1 + 18 \times 1 =$$

$$18. 18 \times 1 + 16 \times 1 + 9 \times 1 + 18 \times 1 + 19 \times 1 + 14 \times 1 + 18 \times 1 + 11 \times 1 =$$

$$19. 14 \times 1 + 15 \times 1 + 8 \times 1 + 16 \times 1 + 20 \times 1 + 15 \times 1 + 11 \times 1 + 15 \times 1 =$$

$$20. 16 \times 1 + 14 \times 1 + 17 \times 1 + 13 \times 1 + 21 \times 1 + 11 \times 1 + 12 \times 1 + 16 \times 1 =$$

$$21. 11 \times 1 + 13 \times 1 + 16 \times 1 + 12 \times 1 + 22 \times 1 + 12 \times 1 + 13 \times 1 + 17 \times 1 =$$

$$22. 12 \times 1 + 12 \times 1 + 15 \times 1 + 11 \times 1 + 23 \times 1 + 11 \times 1 + 14 \times 1 + 18 \times 1 =$$

$$23. 14 \times 1 + 11 \times 1 + 14 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 + 15 \times 1 + 19 \times 1 =$$

$$24. 18 \times 1 + 10 \times 1 + 13 \times 1 + 11 \times 1 + 11 \times 1 + 13 \times 1 + 16 \times 1 + 11 \times 1 =$$

$$25. 13 \times 1 + 15 \times 1 + 12 \times 1 + 14 \times 1 + 11 \times 1 + 12 \times 1 + 17 \times 1 + 13 \times 1 =$$

LESSON CLV.

(1)	(2)	(3)	(4)	(5)
326,731	456,789	200,257	116,876	356,160
184,167	376,198	146,137	114,917	184,437

(6)	(7)	(8)	(9)	(10)
437,126	566,676	514,376	320,006	250,676
187,299	187,696	182,767	166,861	184,395

(11)	(12)	(13)	(14)	(15)
225,646	304,403	275,186	430,764	567,309
183,729	130,304	183,945	184,277	183,729

(16)	(17)	(18)	(19)	(20)
100,100	256,555	333,333	222,264	555,434
90,146	127,676	276,138	184,137	127,296

- | | |
|----------------------------------|-----------------------------------|
| 21. $9 \times 6 + 8 \times 7 =$ | 26. $9 \times 6 + 10 \times 7 =$ |
| 22. $8 \times 9 + 7 \times 6 =$ | 27. $11 \times 8 + 8 \times 11 =$ |
| 23. $9 \times 5 + 8 \times 8 =$ | 28. $12 \times 6 + 7 \times 10 =$ |
| 24. $7 \times 6 + 10 \times 8 =$ | 29. $12 \times 6 + 11 \times 5 =$ |
| 25. $11 \times 5 + 8 \times 4 =$ | 30. $9 \times 9 + 7 \times 7 =$ |

LESSON CLVI.

(1)	(2)	(3)	(4)	(5)
376,685	140,914	214,843	333,333	123,543
194,728	176,387	37,676	638	376,209
336	215,064	2,984	275,140	108,733
1,276	113,817	196	2,582	266,364
225,843	346,309	76	123,456	335,821

- $7 \times 6 + 6 \times 5 + 3 \times 4 =$
- $8 \times 6 + 6 \times 7 + 5 \times 3 =$
- $7 \times 9 + 8 \times 4 + 3 \times 2 =$
- $6 \times 6 + 8 \times 10 + 2 \times 5 =$
- $9 \times 7 + 6 \times 6 + 6 \times 3 =$
- $8 \times 10 + 7 \times 6 + 6 \times 2 =$
- $7 \times 11 + 11 \times 5 + 4 \times 4 =$

18. $3 \times 9 + 8 \times 12 + 4 \times 2 =$
19. $7 \times 6 + 6 \times 7 + 3 \times 5 =$
20. $3 \times 11 + 12 \times 9 + 2 \times 10 =$
21. $9 \times 6 + 6 \times 5 + 8 \times 4 =$
22. $8 \times 7 + 10 \times 4 + 6 \times 3 =$
23. $9 \times 5 + 10 \times 11 + 3 \times 3 =$
24. $7 \times 6 + 9 \times 12 + 4 \times 2 =$
25. $8 \times 11 + 11 \times 5 + 7 \times 3 =$

LESSON CLVII.

1. $3 \times 12 + 4 \times 12 + 5 \times 12 =$
2. $2 \times 12 + 4 \times 12 + 5 \times 12 =$
3. $3 \times 12 + 3 \times 12 + 4 \times 12 =$
4. $2 \times 12 + 3 \times 12 + 4 \times 12 =$
5. $1 \times 12 + 2 \times 12 + 5 \times 12 =$
6. $2 \times 12 + 3 \times 12 + 2 \times 12 =$
7. $2 \times 12 + 1 \times 12 + 3 \times 12 =$
8. $2 \times 12 + 1 \times 12 + 2 \times 12 =$
9. $1 \times 12 + 2 \times 12 + 1 \times 12 =$
10. $1 \times 12 + 1 \times 12 + 1 \times 12 =$
11. $2 \times 11 + 3 \times 11 + 7 \times 11 =$
12. $3 \times 11 + 1 \times 11 + 7 \times 11 =$
13. $2 \times 11 + 2 \times 11 + 6 \times 11 =$
14. $1 \times 11 + 2 \times 11 + 6 \times 11 =$
15. $3 \times 11 + 1 \times 11 + 4 \times 11 =$
16. $2 \times 11 + 2 \times 11 + 3 \times 11 =$
17. $1 \times 11 + 2 \times 11 + 3 \times 11 =$
18. $2 \times 11 + 1 \times 11 + 2 \times 11 =$

19. $1 \times 11 + 1 \times 11 + 2 \times 11 =$

20. $1 \times 11 + 1 \times 11 + 1 \times 11 =$

21. $3 \times 10 + 1 \times 10 + 8 \times 10 =$

22. $2 \times 10 + 1 \times 10 + 6 \times 10 =$

23. $2 \times 10 + 3 \times 10 + 7 \times 10 =$

24. $1 \times 10 + 4 \times 10 + 5 \times 10 =$

25. $2 \times 10 + 2 \times 10 + 7 \times 10 =$

26. $2 \times 10 + 3 \times 10 + 3 \times 10 =$

27. $2 \times 10 + 3 \times 10 + 2 \times 10 =$

28. $1 \times 10 + 2 \times 10 + 1 \times 10 =$

29. $2 \times 10 + 3 \times 10 + 1 \times 10 =$

30. $1 \times 10 + 2 \times 10 + 2 \times 10 =$

31. $3 \times 9 + 2 \times 9 + 7 \times 9 =$

32. $2 \times 9 + 4 \times 9 + 5 \times 9 =$

33. $3 \times 9 + 3 \times 9 + 3 \times 9 =$

34. $2 \times 9 + 3 \times 9 + 4 \times 9 =$

35. $3 \times 9 + 1 \times 9 + 4 \times 9 =$

36. $1 \times 9 + 3 \times 9 + 3 \times 9 =$

37. $2 \times 9 + 2 \times 9 + 2 \times 9 =$

38. $1 \times 9 + 2 \times 9 + 2 \times 9 =$

39. $1 \times 9 + 2 \times 9 + 1 \times 9 =$

40. $1 \times 9 + 1 \times 9 + 1 \times 9 =$

41. $3 \times 8 + 4 \times 8 + 5 \times 8 =$

42. $2 \times 8 + 1 \times 8 + 8 \times 8 =$

43. $2 \times 8 + 2 \times 8 + 6 \times 8 =$

44. $2 \times 8 + 3 \times 8 + 4 \times 8 =$

45. $1 \times 8 + 2 \times 8 + 5 \times 8 =$

46. $2 \times 8 + 1 \times 8 + 4 \times 8 =$

47. $1 \times 8 + 2 \times 8 + 3 \times 8 =$

48. $2 \times 8 + 2 \times 8 + 1 \times 8 =$

49. $1 \times 8 + 1 \times 8 + 1 \times 8 =$

50. $2 \times 8 + 1 \times 8 + 1 \times 8 =$

51. $3 \times 7 + 1 \times 7 + 8 \times 7 =$

52. $1 \times 7 + 1 \times 7 + 9 \times 7 =$

53. $2 \times 7 + 6 \times 7 + 2 \times 7 =$

54. $1 \times 7 + 3 \times 7 + 5 \times 7 =$

55. $2 \times 7 + 5 \times 7 + 1 \times 7 =$

56. $1 \times 7 + 5 \times 7 + 1 \times 7 =$

57. $2 \times 7 + 2 \times 7 + 2 \times 7 =$

58. $1 \times 7 + 3 \times 7 + 1 \times 7 =$

59. $2 \times 7 + 4 \times 7 + 2 \times 7 =$

60. $1 \times 7 + 1 \times 7 + 2 \times 7 =$

LESSON CLVIII.

1. James ate 6 apples on Monday, 4 apples Tuesday, 3 apples Wednesday, 5 apples Thursday, 6 apples Friday, 4 apples Saturday, and 9 apples Sunday; how many apples did he eat during the week?

2. There are 9 boys in each of 8 rows; how many boys in the 8 rows?

3. I bought 9 cents' worth of marbles at 5 for one cent; how many marbles did I buy?

4. Lucy bought a book for 65 cts., a slate for 15 cts., and an eraser for 9 cts.; how much money did she spend?

5. How much change should she receive from one dollar?

$$6. 8 \times 7 + 6 \times 10 + 9 \times 2 =$$

$$7. 7 \times 5 + 8 \times 4 + 6 \times 3 =$$

$$8. 9 \times 4 + 7 \times 6 + 3 \times 5 =$$

$$9. 8 \times 9 + 5 \times 7 + 6 \times 2 =$$

$$10. 7 \times 11 + 6 \times 5 + 2 \times 5 =$$

$$11. 8 \times 7 + 7 \times 6 + 3 \times 4 =$$

$$12. 9 \times 4 + 3 \times 11 + 2 \times 7 =$$

$$13. 6 \times 6 + 5 \times 5 + 3 \times 3 =$$

$$14. 7 \times 11 + 6 \times 3 + 4 \times 4 =$$

$$15. 9 \times 5 + 8 \times 7 + 5 \times 2 =$$

$$16. 7 \times 6 + 6 \times 7 + 3 \times 4 =$$

$$17. 3 \times 9 + 12 \times 5 + 4 \times 2 =$$

$$18. 9 \times 5 + 8 \times 4 + 3 \times 7 =$$

$$19. 6 \times 6 + 5 \times 8 + 4 \times 2 =$$

$$20. 7 \times 6 + 6 \times 3 + 5 \times 2 =$$

$$21. 9 \times 7 + 8 \times 4 + 3 \times 3 =$$

$$22. 5 \times 7 + 6 \times 9 + 5 \times 10 =$$

$$23. 8 \times 4 + 4 \times 3 + 3 \times 4 =$$

$$24. 7 \times 2 + 9 \times 5 + 2 \times 3 =$$

$$25. 9 \times 7 + 6 \times 6 + 3 \times 4 =$$

$$26. 8 \times 7 + 5 \times 10 + 5 \times 3 =$$

$$27. 7 \times 7 + 8 \times 8 + 6 \times 3 =$$

$$28. 8 \times 10 + 7 \times 5 + 4 \times 3 =$$

$$29. 7 \times 6 + 12 \times 7 + 2 \times 3 =$$

$$30. 9 \times 5 + 8 \times 8 + 3 \times 3 =$$

LESSON CLIX.

(1)	(2)	(3)	(4)	(5)
327,666	504,700	276,675	416,256	314,273
183,729	133,116	184,317	181,176	124,281
(6)	(7)	(8)	(9)	(10)
600,600	128,735	273,005	345,627	724,133
131,124	6,148	1,164	181,183	183,273
(11)	(12)	(13)	(14)	(15)
326,483	146,182	246,802	114,276	235,549
141,273	127,293	135,791	152,726	183,243
27,155	315,106	248,109	133,346	127,169
213,273	124,413	113,213	213,416	345,813
333	133,724	213,746	113,186	224,349

16. $48 \times 1 + 56 \times 1 =$ 24. $72 \times 1 + 88 \times 1 =$
 17. $35 \times 1 + 81 \times 1 =$ 25. $35 \times 1 + 72 \times 1 =$
 18. $77 \times 1 + 64 \times 1 =$ 26. $50 \times 1 + 56 \times 1 =$
 19. $55 \times 1 + 70 \times 1 =$ 27. $56 \times 1 + 49 \times 1 =$
 20. $42 \times 1 + 72 \times 1 =$ 28. $81 \times 1 + 72 \times 1 =$
 21. $48 \times 1 + 99 \times 1 =$ 29. $66 \times 1 + 99 \times 1 =$
 22. $35 \times 1 + 76 \times 1 =$ 30. $80 \times 1 + 54 \times 1 =$
 23. $96 \times 1 + 32 \times 1 =$

LESSON CLX.

1. $13 \times 1 + 13 \times 1 + 14 \times 1 + 14 \times 1 + 10 \times 1 + 13$
 $\times 1 + 15 \times 1 + 16 \times 1 =$

2. $12 \times 1 + 14 \times 1 + 16 \times 1 + 18 \times 1 + 20 \times 1 + 22 \times 1 + 11 \times 1 + 10 \times 1 =$
3. $13 \times 1 + 11 \times 1 + 14 \times 1 + 11 \times 1 + 15 \times 1 + 11 \times 1 + 16 \times 1 + 11 \times 1 =$
4. $12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 + 12 \times 1 =$
5. $14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 + 14 \times 1 =$
6. $15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 + 15 \times 1 =$
7. $16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 =$
8. $6 \times 1 + 7 \times 1 + 8 \times 1 + 9 \times 1 + 10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 =$
9. $8 \times 1 + 9 \times 1 + 10 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 =$
10. $11 \times 1 + 15 \times 1 + 16 \times 1 + 11 \times 1 + 18 \times 1 + 12 \times 1 + 11 \times 1 + 12 \times 1 =$
11. $13 \times 1 + 15 \times 1 + 16 \times 1 + 11 \times 1 + 16 \times 1 + 12 \times 1 + 15 \times 1 + 14 \times 1 =$
12. $14 \times 1 + 13 \times 1 + 15 \times 1 + 16 \times 1 + 14 \times 1 + 13 \times 1 + 15 \times 1 + 16 \times 1 =$
13. $12 \times 1 + 12 \times 1 + 14 \times 1 + 14 \times 1 + 16 \times 1 + 16 \times 1 + 18 \times 1 + 18 \times 1 =$
14. $11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 + 11 \times 1 + 10 \times 1 + 9 \times 1 + 8 \times 1 =$
15. $15 \times 1 + 11 \times 1 + 15 \times 1 + 12 \times 1 + 15 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 =$

$$16. 13 \times 1 + 11 \times 1 + 11 \times 1 + 13 \times 1 + 13 \times 1 + 11 \times 1 + 11 \times 1 + 11 \times 1 =$$

$$17. 15 \times 1 + 14 \times 1 + 13 \times 1 + 12 \times 1 + 11 \times 1 + 15 \times 1 + 14 \times 1 + 14 \times 1 =$$

$$18. 9 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 + 7 \times 1 + 9 \times 1 + 8 \times 1 =$$

$$19. 8 \times 1 + 11 \times 1 + 9 \times 1 + 10 \times 1 + 7 \times 1 + 12 \times 1 + 8 \times 1 + 11 \times 1 =$$

$$20. 13 \times 1 + 15 \times 1 + 17 \times 1 + 19 \times 1 + 13 \times 1 + 17 \times 1 + 19 \times 1 + 15 \times 1 =$$

$$21. 16 \times 1 + 15 \times 1 + 14 \times 1 + 13 \times 1 + 13 \times 1 + 15 \times 1 + 17 \times 1 + 16 \times 1 =$$

$$22. 21 \times 1 + 20 \times 1 + 19 \times 1 + 18 \times 1 + 17 \times 1 + 16 \times 1 + 15 \times 1 + 14 \times 1 =$$

$$23. 17 \times 1 + 17 \times 1 + 17 \times 1 + 17 \times 1 + 17 \times 1 + 17 \times 1 + 17 \times 1 + 17 \times 1 =$$

$$24. 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 =$$

$$25. 8 \times 1 + 9 \times 1 + 8 \times 1 + 9 \times 1 + 8 \times 1 + 9 \times 1 + 8 \times 1 + 9 \times 1 =$$

$$26. 14 \times 1 + 15 \times 1 + 11 \times 1 + 12 \times 1 + 13 \times 1 + 16 \times 1 + 13 \times 1 + 12 \times 1 =$$

$$27. 7 \times 1 + 8 \times 1 + 9 \times 1 + 9 \times 1 + 9 \times 1 + 8 \times 1 + 8 \times 1 + 8 \times 1 =$$

$$28. 16 \times 1 + 13 \times 1 + 9 \times 1 + 8 \times 1 + 15 \times 1 + 11 \times 1 + 9 \times 1 + 9 \times 1 =$$

$$29. 12 \times 1 + 13 \times 1 + 14 \times 1 + 15 \times 1 + 16 \times 1 + 17 \times 1 + 18 \times 1 + 19 \times 1 =$$

$$30. \quad 15 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \times 1 + 16 \\ \times 1 + 16 \times 1 + 16 \times 1 =$$

NOTE.—If the class can do more work during the year, give examples in algebra—after the form contained in previous lessons.

Helps in Teaching Arithmetic.

1. *First Steps Among Figures*. A drill book in the Fundamental Rules of Arithmetic. By LEVI N. BEEBE. Cloth, 16mo, 3 editions. *Pupils' Edition*, pp. 140, 45 cts. *Oral Edition*, pp. 139, 50 cts. *Teachers' Edition*, including all in both the others, with additional parallel matter, Index, and Key, pp. 326, \$1.00.

2. *The Pestalozzian Series of Arithmetics*. Teacher's Manual and First-Year Text-Book for pupils in the first grade. Based upon Pestalozzi's method of teaching Elementary Number. By JAMES H. HOOSE. Boards, 16mo, 2 editions. *Pupils' Edition*, pp. 156, 35 cts. *Teacher's Edition*, containing the former, with additional matter, pp. 217, 50 cts.

3. *The Word Method in Number*. A series of 45 Cards, on which are printed all the possible Combinations of Two Figures. In box. By H. R. SANFORD. Size $3\frac{1}{4} \times 6$ inches. Price 50 cts.

4. *A Work in Number for Junior Classes in Graded Schools*. By MARTHA ROE. Cloth, 16mo, pp. 116. Price 50 cts.

5. *Intermediate Problems in Arithmetic for Junior Classes*; containing more than 2,000 problems in Fractions, Reduction, and Decimals. By EMMA A. WELCH. Cloth, 16mo, pp. 96. Price 50 cts.

6. *The Regents' Questions in Arithmetic*, being the 1293 questions given at the first 50 examinations held by the Regents of the University of the State of New York. Manilla, 16mo, pp. 93. 25 cts. Key, 25 cts. The same on Card-Board Slips, in Box, with Key, \$1.00.

7. *Dime Question Book, No. 18, Arithmetic*. By ALBERT P. SOUTHWICK. Paper, 16mo, pp. 39. Price 10 cts.

8. *A Manual of Suggestions for Teaching Fractions*, especially designed to accompany a Fractional Apparatus for developing the Idea of Fractions. By W. W. DAVIS. Paper, 16mo, pp. 43. Price 25 cts. Price of the Apparatus, net, \$4.00.

9. *The 30 Possible Problems of Percentage*, embracing a full and exhaustive discussion of the Theory of General Percentage, with 100 illustrative examples. By W. H. BRADFORD. Manilla, 16mo, pp. 34. Price 25 cts.

10. *Latitude and Longitude, and Longitude and Time*. Embracing a comprehensive discussion, with over 100 illustrative questions and examples. By J. A. BASSETT. Manilla, 16mo, pp. 42. Price 25 cts.

11. *The International Date-Line, or Where does the Day Begin?* By HENRY COLLINS. Paper, 16mo, pp. 15. Price 15 cts.

12. *A Manual of Mensuration*, for use in Common Schools and Academies. By H. H. HUTTON. Boards, 16mo, pp. 150. Price 50 cts.

13. *Number Lessons*, somewhat after the Grubé Method, giving on one side the combinations of the digits, and on the other an unlimited series of drill-exercises. Heavy card-board, 10×11 inches. Price 10 cts.

14. *Age-Cards*, containing 9 columns of figures, to determine a person's age by adding the top numbers of those columns in which the number representing the person's age is found. Heavy card-board, 4×6 . Price 10 cts.

15. *Cube-Root Blocks*, carried to 3 places. Size 3 inches, in box. \$1.00.

16. *Numeral Frames*, with 100 Colored Balls, \$1.25; with 150 Colored Balls, \$1.50.

17. *Algebra for Beginners*. By O. S. MICHAEL. Cloth, 16mo, pp. 120. Price 75 cts.

C. W. BARDEEN, Publisher, Syracuse, N. Y.

Specialties in Arithmetic.

1. *Intermediate Problems in Arithmetic for Junior Classes*; containing more than 4000 problems in Fractions, Reduction, and Decimals. By EMMA A. WELCH. Cloth, 16mo, pp. 172. Price 75 cts. Key to Part II, pp. 30, 50 cts.

In Syracuse and many other large schools, this takes the place of the small arithmetics in common use, forming with any larger or "practical" arithmetic a complete two-book series. The results obtained are in every instance far above those reached by the ordinary text-book. For city and graded schools no other collection of problems will compare with these in practical value and satisfactory results.

2. *A Work in Number for Junior Classes in Graded Schools*. By MARTHA ROE. Cloth, 16mo, pp. 116. Price 50 cts.

This is similar to the above, and was prepared expressly for the Cortland State Normal School.

3. *The 30 Possible Problems in Percentage*, embracing a full and exhaustive discussion of the Theory of General Percentage, with 100 illustrative examples. By W. H. BRADFORD. Manilla, 16mo, pp. 34. Price 25 cts.

4. *Latitude and Longitude, and Longitude and Time*. Embracing a comprehensive discussion, with over 100 illustrative questions and examples. By J. A. BASSETT. Manilla, 16mo, pp. 42. Price 25 cts.

5. *Metric Tables and Problems*; a comprehensive drill in the Metric System, with 175 Problems and Answers. By OSCAR GRANGER. Manilla, 16mo, pp. 23. 25 cts.

6. *The International Date-Line, or Where does the Day Begin?* By HENRY COLLINS. Paper, 16mo, pp. 15. Price 15 cts.

7. *A Manual of Mensuration*, for use in Common Schools and Academies. By H. H. HUTTON. Boards, 16mo, pp. 150. Price 50 cts.

These five books treat exhaustively and with abundant illustration those features of arithmetic that are so often the occasion of difficulty. It is characteristic of good teaching to make the weak places strong, and these books will make pupils surest just where the average pupil is most uncertain.

8. *Algebra for Beginners*. By O. S. MICHAEL. Cloth, 16mo, pp. 120. Price, 75 cts.

A remarkably simple presentation of the subject, that may be used with profit in every beginning class.

9. *Number Lessons*, somewhat after the Grubé Method, giving on one side the combinations of the digits, and on the other an unlimited series of drill-exercises. Heavy card-board, 10x11 inches. Price 10 cts.

10. *Age-Cards*, containing 9 columns of figures, to determine a person's age by adding the top numbers of those columns in which the number representing the person's age is found. Heavy card-board, 4x6. Price 10 cts.

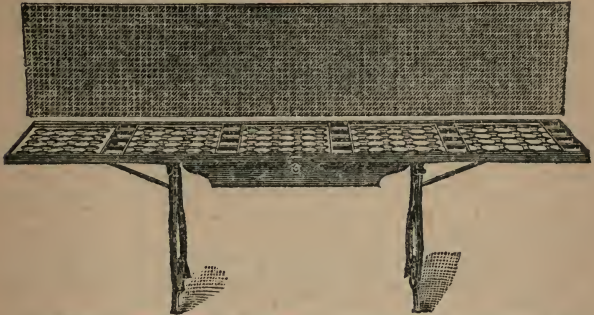
11. *The Regents' Questions in Arithmetic*, containing the 4293 questions given from 1866 to 1882. Manilla, 16mo, pp. 93, 25 cts. Key, pp. 20, 25 cts.

☞ The Arithmetic Questions on Slips are no longer published.

12. *Dime Question Book, No. 13, Arithmetic*. By ALBERT P. SOUTHWICK. Paper, 16mo, pp. 39. Price 10 cts.

C. W. BARDEEN, Publisher, Syracuse, N. Y.

The Badger Primary Table.



This table is designed to facilitate the teaching to primary scholars of word and sentence making and the rudiments of arithmetic.

It is about eight feet long and two feet wide, made of wood supported by iron legs, having in each section a series of twenty cups or receptacles, and twelve movable wire standards for holding objects. Between the cups and the wire standards are grooves for holding arithmetical words and signs.

It has a removable top ruled in inch squares, which serves as a convenient substitute for the ordinary ruled table, made for the use of blocks, splints, letters and words, in word and sentence building.

Under the cover are five square spaces, employing five children at once. Each space contains five square and twenty cup-like receptacles for the articles found in the drawer, besides an oblong curved hollow for wire rods. Between the cups across the table from right to left are grooves for receiving printed cards bearing arithmetical words and signs, and between the grooves running from front to back are holes in which wires for holding objects may stand. The drawer of the stand is divided into compartments, well filled with marbles, buttons, small spools, printed cards, small slates, and other apparatus for work. The drawer also contains a box of printed words and letters for the construction of sentences and words, as well as a handsome clock dial, by means of which time may be easily taught. The clock dial has a wooden pin in the frame by which it stands upright in the table.

It is surprising how soon the smallest child, if you put three articles in a cup, will place just that number in the next cup if so required. Or if you thread a given number of spools on a wire, he will readily place a similar number on another. Then if you put three in one cup and two in another, and direct him to put in a third cup as many as there are in the other two, you advance to Addition. The success of such simple methods is only realized by those who have made experiments with this apparatus, and the variety of work that may be performed is astonishing.

PRICE: ONE Section, \$8.00; THREE Sections, \$15.00; FIVE Sections, \$22.00.

C. W. BARDEEN, Publisher, Syracuse, N. Y.

Useful Appliances in Arithmetic.

1. *The Word Method in Number.* A series of 45 Cards, on which are printed all the possible Combinations of Two Figures. In box. By H. R. SANFORD, Institute Conductor. Size $3\frac{1}{4}$ x 6 inches. Price 50 cts.

These cards need only to be seen, as the principle is familiar and accepted. The type, in *written* figures, is large enough to be seen across the room, and the combination on one side is given in reversed order on the other, so that as the teacher holds the card before him he knows the figures presented to the class. The pupil is taught to look upon the combination $4+9$ as *itself* 13, not as "4 and 9 are 13," just as he looks upon DOG as an entire word, not as D-O-G. Success is certain if new combinations are introduced only after those already given are thoroughly learned. Reviews should be constant.

2. *A Fractional Apparatus.* By W. W. DAVIS. A box of eight wooden balls, three and one-half inches in diameter, seven of which are sawn into 2, 3, 4, 6, 8, 9, and 12 parts respectively, while the eighth is left a sphere. Price \$4.00.

With this apparatus every principle and rule can be developed, and the pupils can be led to deduce rules for themselves.

Many other expedients are resorted to, but they are all objectionable. Suppose a teacher takes a stick and breaks it in the middle, will the pupil perceive two halves of a stick or two sticks? In teaching fractions objectively, that should be taken for unity from which if a part is taken unity is destroyed. This is not the case with a stick or cube. Apples are objectionable for three reasons; first because they cannot always be obtained; second because they are perishable; and third, because the attention of the pupils is diverted by a desire to know whether they are sweet or sour, etc. Nor can the teacher readily saw wooden balls into divisions even enough for the purpose designed, the charm of this method being the *exact* presentation to the pupil's eye of the fact illustrated.

3. *A Manual of Suggestions for Teaching Fractions* especially designed for accompanying the above apparatus. By W. W. DAVIS. Paper, 12mo. pp. 43. 25 cts.

This accompanying manual gives probably the best arrangement of the subject into sixty lessons ever made, with practical suggestions which all teachers will find valuable.

4. *Cube Root Blocks*, carried to Three Places. In box. \$1.00.

Our blocks are unusually large, the inner cube being two inches, and the additions each one-half inch wide.

5. *Numeral Frame*, with 100 balls, \$1.25; with 144 balls, \$1.50.

"Initiate children to arithmetic by means of the *ball frame alone*, thereby making their elementary instruction a simple and natural extension of their own daily observation," says Laurie, in his standard book on *Primary Instruction* (p. 112), and as he leaves the subject of arithmetic, he adds this note (p. 117), as if in fear he had not been sufficiently emphatic:

"The teaching of arithmetic should be begun earlier than is customary, and always with the *ball-frame*."

C. W. BARDEEN, Publisher, Syracuse, N. Y.

School Bulletin Publications

NOTE.—BINDING is indicated as follows : B boards, C cloth, L leatherette, M manilla, P paper. SIZE as follows : 8:416 indicates 8vo, pp. 416; 12:393 indicates 12mo, pp. 393; 16:389 indicates 16mo, pp. 389. Numbers preceding the binding and size give the pages in the Trade Sale catalogue on which the books are described.

Books starred may be had also in the Standard Teachers' Library, manilla binding, at 50 cts. each. Unless expressly ordered to be sent in this binding, such volumes are always sent in cloth.

A DAY of My Life, or Everyday Experiences at Eton.	22 C 16:184....	\$1 00
Ackerman (Mrs. M. B.) Review Questions to accompany Hendrick's History of the Empire State.	45 P 12:15.....	05
Adams. Wall Map of the State of New York, 68x74 inches, 41 C.....		5 00
Ahn (F.) Method of Learning the Dutch Language.	38 C 12:135.....	1 25
Aids to School Discipline. Per box 47.....		1 25
Supplied separately; per 100 Merits, 15 cts.; Half Merits, 15 cts.;		
Cards, 15 cts.; Checks, 40 cts.; Certificates, 50 cts.		
Air Test Bottles. Per set of 3, in cloth case.....		1 00
Alden (Joseph). <i>First Principles of Political Economy.</i>	43 C 16:153.....	75
Alexandrow (F.) Method of Learning Russian.	38 C 12:135.....	1 25
<i>Key</i>		25
Arabic Self-Taught.	38 C 12:104.....	1 25
* Arnold (Thomas). <i>Stanley's Life of, J. S. Carlisle.</i>	15, 17 C 16:252....	1 00
Ascham (Roger). <i>Sketch of,</i> by R. H. Quick.	17 P 16:55.....	15
— <i>* Biography,</i> by Samuel Johnson.	15, 17 C 16:252.....	1 00
— <i>Complete Works.</i>	17 C 16:, 321, 273, 376, 374 4 vols.....	5 00
BALL (J. W.) 1000 Questions-and-Answers in Drawing.	41, 46 L 16:67.	40
— <i>Instruction in Citizenship.</i>	L 12:63.....	40
Barbera (Piero). <i>Educational Publications in Italy.</i>	17, 37 P 8:14.....	15
Bardeen (C. R.) Infection and Immunity.	P 8:20.....	25
— (C. W.) <i>* Manual of School Law.</i>	43 C 16:276.....	1 00
— <i>Geography of the Empire State.</i>	40, 43 C 8:120.....	75
— <i>* Roderick Hume. The Story of a New York Teacher.</i>	15, 22 C 16:295	1 25
— <i>The Little Old Man, or the School for Illiberal Mothers.</i>	15 C 16:31...	50
— <i>Verbal Pitfalls.</i> A manual of 1500 misused words.	26, 37 C 16:223..	75
— <i>The Tax-Payer and the Township System.</i>	25 P 8:20.....	25
— <i>Teaching as a Business for Men.</i>	25 P 8:20.....	25
— <i>The Teacher's Commercial Value.</i>	25 P 8:20.....	25
— <i>The Teacher as He Should Be.</i>	25 P 8:24.....	25
— <i>Effect of the College-Preparatory High School.</i>	24 P 8:5.....	15
— <i>History of Educational Journalism in New York.</i>	17, 25, 43 P 8:45..	40
— <i>The Song Budget.</i>	29 P small 4:76.....	15
— <i>The Song Century.</i>	29 P small 4:87.....	15
— <i>The Song Patriot.</i>	29 P small 4:80.....	15
— <i>The Song Budget Series Combined.</i>	29 C 4:250.....	50

Barnard (Henry). <i>American Journal of Education.</i> Vols. I-V, VIII, IX, XVI, XVII, XXIII, XXIX. Each, Half-turkey, 8: about 800...	\$5 50
— <i>Letters, Essays, Thoughts on Studies and Conduct.</i> C 8:552.....	3 50
— <i>Kindergarten and Child Culture Papers, etc.</i> C 8:784.....	3 50
— <i>American Pedagogy.</i> C 8:510.....	3 50
— <i>Military Systems of Education.</i> C 8:960.....	5 50
— <i>The Ed'l Labors of,</i> by Will S. Monroe. 23 L 16:35.....	50
— (H.) <i>Oral Training Lessons.</i> 29 C 12:136.....	75
Basedow (J. B.) <i>Sketch of,</i> by R. H. Quick. 17 P 16:18.....	15
Bassett (J. A.) <i>Latitude, Longitude and Time.</i> 30, 33, 40 M 16:42.....	25
Bates (S. P.) <i>Methods of Teachers' Institutes.</i> 28 C 12:76.....	60
Batsdorf (J. B.) <i>The Management of Country Schools.</i> 25, 27 P 8:33....	20
Beebe (Levi N.) <i>First Steps among Figures.</i> 30, 31 C 16:326.....	1 00
<i>Pupil's Edition.</i> C 16:140.....	45
Beesau (Amable). <i>The Spirit of Education.</i> C 16:325, and Portrait....	1 25
Bell (Andrew). <i>An Old Educational Reformer.</i> 17 C 16:182.....	1 00
Bennett (C. W.) <i>National Education in Europe.</i> 25 P 8:28.....	15
— <i>History of the Philosophy of Pedagogics.</i> 17, 21 L 16:43.....	50
Binner (Paul). <i>Old Stories Retold.</i> 34 B 16:64.....	25
Blakely (W. A.) <i>Chart of Parliamentary Rules.</i> 37 P 16:4.....	25
Bradford (W. H.) <i>Thirty Possible Problems in Percentage.</i> 30 M 16:34.	25
Briggs (F. H.) <i>Boys and How to Re-Make them.</i> 25 P 8:24.....	25
— <i>Industrial Training in Reformatory Institutions.</i> 25 P 8:24.....	25
Bristol (H. C.) <i>Honesty Cards in Arithmetic.</i> 28, 30 50 cards, 3x4½... 50	
Browne (M. Frances). <i>A Glimpse of Grammar-Land.</i> 34 P 8:24.....	15
* Buckham (Henry B.) <i>Handbook for Young Teachers.</i> 15, 23, 27 C 16:152.....	75
Buffalo Examination Questions. 46 L 16:110. 1st Year; 2d and 3d Years, each.....	50
Bugbee (A. G.) <i>Exercises in English Syntax.</i> 36 L 16:85.....	35
— <i>Key to the same.</i> L 16:36.....	35
Bulletin Spelling Pads, 70 pages. Each.....	15
— <i>Book-Keeping Blanks.</i> Press-board, 7x8½, pp. 28. Each.....	15
— <i>Composition Book.</i> M 8:44.....	15
— <i>Class Register.</i> Press-board cover, <i>Three Sizes,</i> (a) 6x7, for terms of twenty weeks; or (b) 5x7, for terms of fourteen weeks. 47 Pp. 48.....	25
— (c) Like (b) but with one-half more (72) pages.....	35
— <i>Pencil Holder,</i> numbered for 60 pupils. 48.....	2 00
— <i>Ink-Well Filler,</i> holding one quart. 48.....	1 25
— <i>Number Fan.</i> 30, 11x15 inches.....	1 00
Burnham (W. P.) <i>Duties of Outposts U. S. Army.</i> 33 C 24:171.....	50
Burritt (J. L.) <i>Penmanship in Public Schools.</i> P 12:62, and chart.....	60
Butler (Nicholas Murray). <i>The Place of Comenius.</i> 18, 24 P 16:20.....	15
CABANO (Lopes de). <i>Method of Learning Portugese.</i> 38 C 12:175.....	1 25
<i>Key</i>	25
Cæsar's Conspiracy of the Helvetians. 45 P 16:20.....	10
Canfield James H.) <i>Rural Higher Education.</i> 24, 25 P 8:24.....	15

* Carlisle (J. S.) <i>Two Great Teachers, Ascham and Arnold.</i> 15, 17 C 16:252.....	\$1 00
Catalogue of Rare Books on Pedagogy. P 24:58.....	06
— of School Bulletin Publications. P 16:100.....	06
Cheney (F.) <i>A Globe Manual for Schools.</i> 40 P 16:95.....	25
Civil Service Question Book. 46 C 16:282.....	1 50
Clark (Noah T.) <i>Chart of U. S. History.</i> 42 P 8½x12. Each 6c.; per doz.	50
Code of Public Instruction, New York, 1888. 43 L 8:1075, net.....	2 50
Colored Crayon, for Blackboard, per box of one dozen, nine colors...	25
Collins (Henry.) <i>The International Date Line.</i> 30, 33, 40 P 16:15.....	15
Comenius (John Amos.) <i>Orbis Pictus.</i> 18 C 8:232.....	3 00
— * <i>Life and Educational Works</i> , by S. S. Laurie. 15, 17, 18 C 16:272....	1 00
— <i>Sketch of</i> , by R. H. Quick. 17 P 16:25.....	15
— <i>Portrait of</i> , P 22x28.....	1 00
Comfort (George F.) <i>Modern Languages in Education.</i> 25 P 16:40....	25
Constitution of the State of New York. P 16:63.....	10
Cooper (Oscar R.) <i>Compulsory Laws and their Enforcement.</i> 24 P 8:6..	15
Craig (A. R.) <i>The Philosophy of Training.</i> C 12:377.....	2 00
Crain (J. H.) <i>70 Review Lessons in Geography.</i> 40 P 16:60.....	25
Cube Root Blocks, carried to 3 places. 30.....	1 00
Cyclopædia of Education. 14 C 8:562.....	3 75
DANIELS (Blanche R.) <i>Outlines of English Literature.</i> 38, 45 C 12:102.	50
Danish and Norwegian Conversation Book. 38 C 24:128.....	75
Davis (W. W.) <i>Suggestions for Teaching Fractions.</i> 30 P 16:43.....	25
— <i>Fractional Apparatus</i> , in box. 30 (Not mailable).....	4 00
De Graff (E. V.) <i>Practical Phonics.</i> 37 C 16:108.....	75
— <i>Pocket Pronunciation Book.</i> 37 M 16:47.....	15
— * <i>The School-Room Guide.</i> 15, 23, 27, 28 C 16:396.....	1 50
— <i>Development Lessons.</i> C 8:301.....	1 50
— <i>The School-Room Chorus.</i> 29 B 4:147.....	35
— <i>Calisthenics and Disciplinary Exercises.</i> 33 M 16:39.....	25
* De Guimps (Roger.) <i>Pestalozzi, his Aim and Work.</i> 15, 17, 19 C 12:331..	1 50
Denominational Schools. Discussion of 1889. 24 P 8:71.....	25
Dickinson (John W.) <i>The Limits of Oral Teaching.</i> 24, 27, 29 P 16:24..	15
Diehl (Anna Randall-). <i>A Practical Delsarte Primer.</i> 33, 34 C 16:66....	50
Diplomas, printed to order from any design furnished. Specimens sent.	
41 (a) Bond paper, 14x17, for 25 or fewer.....	5 00
“ “ “ “ 50.....	6 50
(b) “ “ “ 16x20, “ 25 or fewer.....	5 50
“ “ “ “ 50.....	7 25
(c) Parchment, 15x20, “ 1.....	3 50
Each additional copy.....	75
Donaldson (James.) <i>Lectures on Education.</i> 17 C 16:185.....	1 00
Dudevant (A.) <i>French and English Commercial Correspondence.</i> 39 C 12:107.....	50
Durham (W. H.) <i>Carleton Island in the Revolution.</i> 15 C 16:128.....	1 00
EDUCATION as Viewed by Thinkers. 21, 24 P 16:47.....	15
— * <i>Intellectual, Moral, and Physical</i> , Herbert Spencer. 15, 21 C 16:331.	1 00
— <i>for the People, in America, Europe, India, and Australia.</i> 22 C 8:176.	1 25

Edwards (A. M.) <i>Graded Lessons in Language</i> . Nos. 1-6. 36 P 8:86, each per dozen.....	\$1 00
— 500 <i>Every Day Business Problems in Arithmetic</i> . 500 cards, $1\frac{1}{8} \times 3\frac{1}{2}$, with Key, 28, 30.....	50
— 500 <i>Pertinent Questions in Civics</i> , with Answers. 28, 43 P 16:54.....	15
— <i>The same</i> , with Questions on 250 slips of cardboard, in box. 28, 43.	50
— <i>Historical Game</i> , "Our Country". 100 cards, $2\frac{1}{4} \times 3\frac{3}{8}$. 28, 42.....	50
— <i>Historical Cards</i> . $3\frac{1}{4} \times 5\frac{1}{4}$. 28, 42	
(a) <i>General History</i> . 200 cards.....	1 00
(b) <i>United States History, Part I</i> . 92 cards.....	50
(c) <i>United States History, Part II</i> . 108 cards.....	50
(d) <i>United States History, Complete</i> . 200 cards.....	1 00
— <i>Outline and Topic Book in U. S. History</i> . P 8:212.....	50
— <i>Geographical Game</i> , "Our Country". 100 cards, $2\frac{1}{4} \times 3\frac{3}{8}$. 28, 42....	50
— <i>Geographical Cards</i> . $3\frac{1}{4} \times 5\frac{1}{4}$. 28, 40	
(a) <i>Part I. Physical Geography and North America</i> . 100 cards.....	50
(b) <i>Part II. The Rest of the World</i> . 100 cards.....	50
(c) <i>Complete</i> . 200 cards.....	1 00
Emerson (A. W.) <i>Composition and Criticism</i> . 36 L 16:82.....	40
— (H. P.) <i>Latin in High Schools</i> . 25 P 8:9.....	25
Essays on the Kindergarten . 19, 27 C 12:175.....	1 00
FARNHAM (Geo. L.) <i>The Sentence Method of Reading</i> . 34 C 16:55....	50
Fitch (Joshua G.) <i>The Art of Questioning</i> . 20, 24, 26 P 16:36.....	15
— <i>The Art of Securing Attention</i> . 20, 24, 26 P 16:43.....	15
— <i>Lectures on Teaching, Reading Club Edition</i> . 21 C 12:436.....	1 25
Foreign Languages . See pp. 38, 39	
Fowle (Wm. B.) <i>The Teachers' Institute</i> . 28 C 12:238.....	1 00
Franck (F.) <i>The German Letter-Writer</i> , with the Forms of Polite Cor- respondence, and English Explanatory Notes. 39 P 16:112.....	40
* Franklin (Benj.) <i>Autobiography</i> . 15 C 16:241.....	1 00
Froebel (Friedrick). <i>Autobiography of</i> . 17, 19 C 12:183.....	1 50
GAINES (J. T.) <i>Principles of Teaching</i> . 21, 25 P 8:63.....	20
Geometry Test Papers , by Wm. Smith. Packages of 100, $8\frac{1}{2} \times 10$. 33... 1 00	
Geddes (Patrick). <i>Industrial Exhibitions</i> . P 16:57.....	25
German Self-Taught . 39 P 16:87.....	40
Gill (John). <i>School Management</i> . 27 C 16:276.....	1 00
Godard (Harlow). <i>An Outline Study of U. S. History</i> . 42 L 16:146.....	50
Goethe (J. F. von). <i>Egmont, with English Notes</i> . 39 C 16:140.....	40
Gore (J. Howard). <i>Manual of Parliamentary Practice</i> . 37 C 16:112.....	50
Goulding (Matilda P.) <i>Flores: A Botanical Game</i> . 28 cards, $2\frac{5}{8} \times 3\frac{1}{4}$. 42.	50
Granger (Oscar). <i>Metric Tables and Problems</i> . 30 M 16:23.....	25
Grant (James). <i>History of the Burgh Schools of Scotland</i> . 17, 22 C 8:591.	3 00
Grasby (W. Catton). <i>Teaching in Three Continents</i> . 22 C 12:344.....	1 50
Gray (Thos. J.) <i>Methods and Courses in Normal Schools</i> . 24 P 8:19.....	15
Griffin (Ida L.) <i>Topical Geography</i> , with Methods. 40 L 12:142.....	50
Griffith (Geo.) <i>Outline Blackboard Maps</i> . 40. Per set.....	8 00
HAHN (F.) <i>The Child's German Book</i> . 39 P 16:87.....	40

Hallmann (W. N.) <i>Primary Kindergarten Helps.</i> 19, 27 B 8:58.....	\$ 75
— <i>The New Education.</i> Vol. VI and last. 19 C 8:146.....	2 00
— <i>Sketches from the History of Education.</i> 17, 25 P 8:39.....	20
Hall (Marcella W.) <i>Orthoepy Made Easy.</i> 37 C 16:100.....	75
Hamilton <i>Declamation Quarterly.</i> Vol. I. (all published). 35 C 16:337.....	1 00
Harlow (W. B.) <i>Early English Literature.</i> 38 C 16:138.....	75
Harris (W. T.) <i>Natural Science in the Public Schools.</i> 29, 33 L 16:60....	50
— <i>Horace Mann.</i> P 16:50	15
— <i>The Theory of Education.</i> 21, 24 P 16:54.....	15
— <i>The Educational Value of Manual Training.</i> 24, 26 P 8:14.....	15
— <i>Art Education The True Industrial Education.</i> 24, 26 P 8:9.....	15
— <i>University and School Extension.</i> 24 P 8:12.....	15
— <i>The General Government and Public Education.</i> 24 P 8:8.....	15
— <i>Report on Pedagogical and Psychological Observation.</i> 20, 24 P 8:6...	15
Heermans (Forbes). <i>Stories of the Far West.</i> C 16:260...	1 25
*Helps to Self-Culture. 15 C 16:241.....	1 00
Hendrick (Mary F.) <i>Questions in Literature.</i> 38 B 16:100.....	35
— (W) “ <i>The Table is Set.</i> ” A Comedy for Schools, 34, 16:30.....	15
— <i>School History of the Empire State.</i> 43, 45 C 12:201.....	75
Hennig (Carl V.) <i>Anatomical Manikin.</i> 33 M 8:18.....	1 00
Hinckley (Mary P.) <i>Longfellow Exercise for 50 Pupils</i> P 8:12.....	10
Hinsdale (B. A.) <i>Pedagogical Chairs in Colleges</i> 24 P 8:11.....	24
— <i>* Schools and Studies.</i> 15, 21 C 12:362.....	1 50
Hoose (James H.) <i>Studies in Articulation.</i> 37 C 16:70.....	50
— <i>* On the Province of Methods of Teaching</i> 15, 28 C 16:376.....	1 00
— <i>Pestalozzian First-Year Arithmetic.</i> 19, 30, 31 B 16:217.....	50
— <i>Pupils' Edition.</i> B 16:156.....	35
— <i>Second Year Arithmetic.</i> B 16:236.....	50
Hornstone Slating , the best crayon surface made. 48, per gallon...	8 00
— <i>Slated Paper</i> , per square yard (if by mail, 60 cts.) 48.....	50
Hoss (Geo. H.) <i>Memory Gems.</i> 34, 38 P 16:40.....	15
Hotchkiss (Viala P.) <i>Lessons in Object Drawing.</i> 41 L 4:82.....	50
Hughes (James L.) <i>Mistakes in Teaching.</i> 26, 27 C 16:135.....	50
— <i>How to Secure and Retain Attention.</i> 20, 26 C 16:98.....	50
Huntington (Rt. Rev. F. D.) <i>Unconscious Tuition.</i> 24 P 16:45.....	15
Hutton (H. H.) <i>A Manual of Mensuration.</i> 30, 32 B 16:168.....	50
ITALIAN and English Correspondence. 38 P 12:90.....	50
JACKSON (E. P.) <i>Class Record Cards.</i> 47 90 white and 10 colored cards.....	50
Jacotot (Joseph). <i>Sketch of</i> , by R. H. Quick. 17 P 16:28.....	15
Jewell (F. S.) <i>Grammatical Diagrams.</i> 36 C 12:207.....	75
Johnson's <i>Chart of Astronomy.</i> On enamelled cloth, 40x46 inches...	3 50
Juliand (Anna M.) <i>Brief Views of U. S. History.</i> 42 L 16:69.....	35
KAROLY (Akin). <i>The Dilemmas of Labor and Education.</i> C 12:77...	1 00
Kay (David). <i>Education and Educators.</i> 21 C 12:490.....	2 00
Keller (C.) <i>Monthly Report Cards.</i> 47 23/4x4 inches, Per hundred 21..	1 00

Kennedy (John). <i>The Philosophy of School Discipline.</i> 24 P 16:23.....	\$ 15
— <i>Must Greek Go?</i> 25 L 16:66.....	50
Kiddle (Henry) <i>3,000 Grammar Questions, with Answers</i> 36 C 16:220....	1 00
Kindergarten <i>Essays.</i> 19, 27 C 12:175.....	1 00
Knott (E. E.) <i>The Ready Reference Law Manual.</i> 43 C 8:381.....	2 00
LANE (Fred N.) <i>Elementary Greek Education.</i> 17 L 16:85.....	50
* Laurie (S. S.) <i>John Amos Comenius</i> 15, 17, 18 C 16:272.....	1 00
Lawrence (E. C.) <i>Recreations in Ancient Fields.</i> C 12:177.....	1 00
Lees (James T.) <i>The Claims of Greek.</i> 25 P 8:16.....	25
Locke (John). <i>Sketch of,</i> by R. H. Quick. 17 P 16:27.....	15
Lowrie (R. W.) <i>How to obtain Greatest Benefit from a Book.</i> 38 P 8:12..	25
M'CULLY'S Perforated Erasers. 48. Per doz.....	1 00
* Mace (W. H.) <i>A Working Manual of American History.</i> 15, 42 C 16:297	1 00
McCosh (James). <i>Essays on the Higher Education.</i> 25 C 8:120.....	75
McKay (John S.) <i>100 Experiments in Natural Science.</i> 33 P 16:50.....	15
* Mann (Horace). <i>Thoughts for a Young Man.</i> 15 C 16:241.....	1 00
— <i>Sketch of,</i> by W. T. Harris. 16:50.....	15
Maps for the Wall. See page 41.	
Maps, Relief Maps. Switzerland. 40, 41 11x17½, \$3.50; 23x34, \$10.00.	
Palestine 22x35.....	10 00
— <i>Griffith's Outline Blackboard Maps.</i> 40 Per set.....	8 00
— <i>Dissected Maps.</i> United States sawn into States.....	75
— <i>The Same, New York State Sawn into Counties.</i>	75
— <i>Onondaga County.</i> Cloth, 4x4½ feet. 41.....	10 00
— <i>New York State.</i> Cloth, 61x76 inches. 41.....	5 00
— <i>Outline Maps (6x9) of New York,</i> 40, 43. Per pad of 50.....	15
Marble (A. P.) <i>Powers of School Officers.</i> 25, 43 P 16:27.....	\$ 15
Marchetti (G.) <i>Method of Learning Italian.</i> 39 C 12:218.....	1 20
— <i>Key 2A.</i>	25
Marenholtz-Buelow (Baroness) <i>School Work-shop.</i> 24, 26 P 16:27....	15
— <i>Child and Child Nature.</i> Fröbel's Ed'l Theories. 19, 20, 27 C 12:207.	1 50
Maudsley (H.) <i>Sex in Mind and Education.</i> 20, 24 P 16:42.....	15
Maxwell (W. H.) <i>Examinations as Tests for Promotion.</i> 24 P 8:11.....	15
— <i>The Text-Books of Comenius, with cuts from the Orbis Pictus.</i>	
18 8:24.....	25
Meese (John D.) <i>Facts in Literature.</i> 38 P 16:38.....	15
Meiklejohn (J. M. D.) <i>The New Education.</i> 19, 24, 26 P 16:35.....	15
— <i>An Old Educational Reformer.</i> (Dr. Andrew Bell.) 17 C 16:182....	1 00
Meissner (M.) <i>Method of Learning German.</i> 38, 39 C 12:238.....	1 25
Michael (O. S.) <i>Algebra for Beginners.</i> 32 C 16:120.....	75
Mill (John Stuart) <i>Inaugural Address at St. Andrews.</i> 21, 25 P 8:31...	25
Miller (Warner). <i>Education as a Dep't of Government.</i> 25 P 8:12.....	15
Mills (C. D. B.) <i>The Tree of Mythology.</i> C 8:281.....	3 00
Milne (James M.) <i>Teachers' Institutes, Past and Present</i> 17 P 8:22....	25
Milton (John). <i>A Small Tractate of Education</i> 21, 24 P 16:26.....	15
— <i>Sketch of,</i> by R. H. Quick. 17 P 16:55.....	15
Minutes of the International Congress of Education, 1889. 14 C 12:4 vols.	5 00

Missouri, Civil Government of, Northam.	43 C 16:151.....	§ 75
Monroe (Will S.) <i>Labors of Henry Barnard.</i>	17, L 16:35.....	50
Morey (Amelia). <i>Outline of Work in Elementary Language.</i>	36 C 16:139.....	50
Mottoes for the School Room.	7x14, 47, Per set.....	1 00
NEW YORK <i>Question Book</i>, with all the Questions of the Uniform, State, Cornell, Scholarship, and Normal Entrance Examinations, to March 31, 1890, with Answers.	43, 44, 46. 8:461. P \$1.00; C....	2 00
— <i>The same</i> , Supplement No. 1, to June, 1891.	M 8:63.....	25
— <i>The same</i> , Supplement No. 2, to June, 1892.	M 8:139.....	25
— <i>The same</i> , Supplements Nos. 1 and 2, in one volume.	C 8:202.....	1 00
— * <i>The same</i> , Uniform only, Supplement No. 5, 1894-5.	16:203.....	1 00
— * <i>The same</i> , Supplement No. 6, 1895-6.	16:212.....	1 00
— * <i>The same</i> , Questions in Drawing : Aug., 1892, to Aug., 1896.	16:221.	1 00
— <i>The same</i> , Questions in Arithmetic.	P 16:54.....	25
— <i>The same</i> , Questions in Algebra, Book-keeping, Physics.	P 16:56..	25
— <i>The same</i> , Questions in Am. History, Civil Gov't, and School Law,	P 16:112.....	25
— <i>The same</i> , Questions in Methods and School Economy.	M 16:48....	25
— <i>The same</i> , Questions in Geography.	M 16:44.....	25
— <i>The same</i> , Questions in Physiology.	M 16:48.....	25
— * <i>State Examination Questions to 1894.</i>	15, 46 C 16:402.....	1 00
— <i>The same</i> , for 1895.	P 16:27.....	10
— <i>The same</i> , for 1896.	P 16:29.....	10
— <i>The Questions in Book-keeping, with Answers.</i>	46 P 16:31.....	10
— <i>Civil Government of the State of, Northam.</i>	43 C 16:231.....	75
— <i>Code of Public Instruction.</i> Latest edition.	43 L 8:1075.....	2 50
— <i>History of the Empire State, Hendrick.</i>	43, 45 C 12:203.....	75
— <i>Natural History, and Cabinet Reports.</i>	Write for information.	
Northam (Henry C.) <i>Civil Government.</i>	43 C 16:231.....	75
— <i>The same for Missouri.</i>	43 C 16:151.....	75
— <i>Fixing the Facts of American History.</i>	42 C 16:300.....	75
— <i>Conversational Lessons Leading to Geography.</i>	P 16:39.....	25
Northend (Chas.) <i>Memory Selections.</i> Three Series. 34, 38. Each....		25
— * <i>The Teacher and Parent.</i>	15 C 16:350.....	1 00
Northrop (B. G.) <i>High Schools.</i>	25 P 8:26.....	25
Northrup (A. J.) <i>Camps and Tramps in the Adirondacks.</i>	15 C 16:302.	1 25
Number Lessons. On card-board, 7x11, after the Grubé Method.....		10
OSWALD (John). <i>Dictionary of English Etymology.</i>	36 C 16:306.....	2 00
* PAGE (David P.) <i>The Theory and Practice of Teaching.</i> 15, 23, 27, 28 C 16:448.....		1 00
Pardon (Emma L.) <i>Oral Instruction in Geography.</i>	40 P 16:29.....	15
Parsons (James Russell, Jr.) <i>Prussian Schools.</i>	22 C 8:91.....	1 00
— <i>French Schools through American Eyes.</i>	22 C 8:130.....	1 00
* Patrick (J. N.) <i>Elements of Pedagogics.</i>	15, 21 C 16:224.....	1 00
— <i>Pedagogical Pebbles.</i>	16:96.....	50
Pattee (F. L.) <i>Literature in Public Schools.</i>	38 P 8:48.....	20
Payne (Joseph). <i>Lectures on the Art of Education.</i>	21 C 16:281.....	1 00

Payne (W. H.) <i>A Short History of Education.</i> 17 C 16:105.....	\$ 50
Pedagogical Primers. Each.....	25
1. <i>School Management.</i> 27 M 1645. 2. <i>Letter-Writing.</i> M 16:37.	
Perez (B.) <i>The First Three Years of Childhood.</i> 19, 20, 27 C 16:295.....	1 50
— <i>Tiedemann's Record of Infant Life.</i> 20, 24 M 16:46.....	15
Periodicals. <i>The School Bulletin.</i> 13 Monthly, 16 pp., 10x14. Per year.	1 00
— Bound Vols. I-XXII. C 200 pp., each.....	2 00
— <i>The Hamilton Declamation Quarterly.</i> Bound volume I. 35 C 16:337.	1 00
— <i>The School Room.</i> Bound volumes I-V. Each.....	1 50
— <i>The New Education.</i> Bound volume VI. 19 C 8:146.....	2 00
* Pestalozzi (J. H.) <i>His Aim and Work,</i> De Guimps. 15, 17, 19 C 16:296.	1 50
— <i>Sketch of,</i> by R. H. Quick. 17, 19 P 16:40....	15
— <i>How Gertrude Teaches her Children.</i> 19 C 12:320.....	1 50
— <i>Pestalozzian Arithmetics.</i> 19, 30, 31 B 1st Year, pp. 217. 2d Year, 16:236. Each.....	50
— <i>Lessons on Number and Form,</i> by C. Reiner. 19, 44, 45 C 16:439.....	3 00
Pick (Dr. E.) <i>Dr. Pick's French Method.</i> 39 L 16:118.....	1 00
— <i>Memory, and the Rational Means of Improving it.</i> 20, 39 C 16:193....	1 00
Pitcher (James). <i>Outlines of Surveying and Navigation.</i> C 16:121,....	50
Plumb (Chas. G.) <i>Map Drawing of New York.</i> M 8:16.....	25
Pooler (Chas. T.) <i>Chart of Civil Government.</i> 43 P, 12x18, per hun.....	5 00
— <i>Hints on Teaching Orthoepy.</i> 37 P 16:15.....	10
Preece (Mrs. Louise). <i>Physical Culture. Illustrated.</i> 33 C 4:292.....	2 00
Prentice (Mrs. J. B.) <i>Review Problems in Arithmetic.</i> 30, 45, 46 P 16:93.	20
— <i>Key to the above.</i> P 16:20.....	25
— <i>Review Questions in Geography.</i> 40, 45 P 16:48.....	15
Primers of School Management and of Letter-Writing. 27 M pp. 45, 37.	
Each.....	25
* QUICK (R. H.) <i>Essays on Educational Reformers.</i> 17 C 12:331.....	1 00
REDWAY (J. W.) <i>School Geography of Pennsylvania.</i> 40 L 16:98.....	35
Regents' Examination Paper. 45. Per 1,000 half-sheets in box....	3 00
— Examination Pens. 45. ¼ gross, 25 cts. Per gross, post-paid... 1 00	
— Fourth Year Latin. <i>Cæsar's Conspiracy.</i> 45 P 16:20.....	10
— Selections in American, German, and French Literature. 38, 39, 45 L 16:56. 25 cents. With music, 35 cts, Each separate, P.....	10
— Examination Record. 45. For 432 scholars, \$3.00 ; 864 scholars. 6 00	
— Examination Syllabus, in U. S. History. 45. P per dozen.....	50
— Questions to June, 1882. (No later are printed.) <i>Eleven editions.</i>	
1. <i>Complete with Key</i> 44, 45, 47 C 16:476.....	2 00
2. <i>Complete.</i> Same as above, but without the answers. Pp. 333... 1 00	
3. <i>Arithmetic.</i> The 1,293 questions in Arithmetic. 30 M 16:93....	25
4. <i>Key to Arithmetic.</i> Answers to the above. M 16:20.....	25
5. <i>Geography.</i> The 1,987 questions in Geography. M 16:70.....	25
6. <i>Key to Geography.</i> Answers to the above. M 16:36.....	25
7. <i>Grammar.</i> The 2,976 questions in Grammar. M 16:109.....	25
8. <i>Grammar and Key.</i> 36 C 16:198.....	1 00
9. <i>Key to Grammar.</i> M 16:88.....	25
10. <i>Spelling.</i> The 4,800 words given in Spelling. M 16:61.....	25

* Rein (W.) <i>Outlines of Pedagogics.</i> 15, 21 C 16:232.....	\$1 25
Reiner (C.) <i>Lessons on Number and Form as taught in a Pestalozzia School at Cheam, Surrey.</i> 19, 44, 45 C 16:439.....	3 00
Reinhart (A.) <i>Neglect of Bodily Development of American Youth.</i> P 8:15.	25
Richardson (B. W.) <i>Learning and Health.</i> 24 P 16:39.....	15
Robinson (A. H.) <i>Numeral School Register.</i> M 2:16.....	25
Rousseau (J. J.) <i>Sketch of,</i> by R. H. Quick. 17 P 16:30.....	15
Rooper (T. G.) <i>Apperception, or "A Pot of Green Feathers".</i> 20, 25 L 16:59.....	50
— <i>Object Teaching, or Words and Things.</i> 19, 41 L 16:56.....	50
Russian Conversation Book. 38 C 24:130.....	75
Ryan (G. W.) <i>School Record.</i> 47 P. 56 blanks on each of 14 sheets....	50
SABIN (Henry). "Organization" vs. Individuality. 24 P 8:9.....	25
Salvo (D.) <i>Method of Learning Spanish.</i> 39 C 12:216.....	1 20
— <i>Key.</i> P 12:33.....	25
— <i>Spanish and English Idiomatic Phrases.</i> 39 C 24:160.....	75
— <i>Spanish and English Commercial Correspondence.</i> 39 P 12:109.....	50
Sanford (H. R.) <i>The Word Method in Number.</i> 30, 32. 6x3, 45 cards.	50
— <i>The Limited Speller.</i> L 16:104.....	25
Sayce (A. H.) <i>An Assyrian Grammar.</i> 38 C 12:204.....	3 00
Schepmoes (A. E.) <i>Rise of the New York School System.</i> L 16:32.....	35
Schiller (J. C. F. von). <i>Marie Stuart.</i> 39 B 16:163.....	40
— <i>Die Jungfrau von Orleans.</i> 39 B 16:157.....	40
— <i>Wilhelm Tell.</i> 39 B 16:165.....	40
— <i>Der Neffe als Onkel.</i> 39 B 16:72.....	40
School Room Classics. 24 P 16:40, each.....	15
I. Huntington's <i>Unconscious Tuition.</i>	
II. Fitch's <i>Art of Questioning.</i>	
III. Kennedy's <i>Philosophy of School Discipline.</i>	
IV. Fitch's <i>Art of Securing Attention.</i>	
V. Richardson's <i>Learning and Health.</i>	
VI. Meiklejohn's <i>New Education.</i>	
VII. Milton's <i>Tractate of Education.</i>	
VIII. Von Buelow's <i>School Workshop.</i>	
IX. Maudsley's <i>Sex in Mind and in Education.</i>	
X. <i>Education as Viewed by Thinkers.</i>	
XI. Harris's <i>Horace Mann.</i>	
XII. Dickinson's <i>Oral Teaching.</i>	
XIII. Tiedemann's <i>Record of Infant Life.</i>	
XIV. Butler's <i>Place of Comenius in Education.</i>	
XV. Harris's <i>Theory of Education.</i>	
Schreber (D. G. R.) <i>Home Exercise for Health and Cure.</i> 33 C 16:91....	50
Seiderstruck (J. H. P.) <i>Easy methods of Learning Latin.</i> 38 C 12:144.	1 25
Shaw's <i>Scholar's Register.</i> 47 P 12:16. Per doz.....	50
Sheely (Aaron). <i>Anecdotes and Humors of School Life.</i> C 12:350.....	1 50
Sherrill (J. E.) <i>The Normal Question Book.</i> C 12:405.....	1 50
Sherriff (Emily) <i>The Kindergarten System.</i> 19, 27 C 12:200.....	1 00
Skinner (Chas. E.) <i>The Arbor Dag Manual.</i> 34 C 8:475	2 50
— <i>The New York Question Book.</i> C 8:461. See <i>New York.</i>	2 00
Smith (C. F.) <i>Honorary Degrees in American Colleges.</i> 25 P 8:9.....	15
— (Edward). <i>History of the Schools of Syracuse.</i> 17, 22 C 8:347.....	3 00
— (Geo. M.) <i>Vocabulary to Cæsar's Gallic War.</i> 45 C 16:67.....	50
— (Wm.) <i>Geometry Test Papers</i> 32 P Package of 100, 8½x10.....	1 00

Song Budget, The. 234th Thousand. 29 P s 4:76.....	15
— Century, The. 97th Thousand. 29 P s 4:87.....	15
— Patriot, The. 119th Thousand. 29 P s 4:80.....	15
— Budget Music Series, including all the above. 29 C pp. 243.....	50
— Gymnast, The. 29. 33 C 16:160.....	50
Songs from Arbor Day Manual. 29, 34 M 8:60.....	25
— of the Lyceum League. 29 L 4:48.....	20
Sornberger (S. J.) Normal Language Lessons, 36 B 16:75.....	50
Southwick (A. P.) Twenty Dime Question Books, with full answers, notes, queries, etc. 44, 46 P 16:40. Each.....	10

Elementary Series

3. Physiology. 33	
4. Theory and Practice. 27	
6. U. S. History and Civil Gov't. 42	
10. Algebra.	
13. American Literature. 38	
14. Grammar. 36	
15. Orthography & Etymology. 36, 37	
18. Arithmetic. 30	
19. Physical and Political Geog. 40	
20. Reading and Punctuation. 34	
The 10 in one book, C \$1.00	

Advanced Series.

1. Physics. 33	
2. General Literature. 38	
5. General History. 42	
7. Astronomy. 33	
8. Mythology.	
9. Rhetoric. 36	
11. Botany. 33	
12. Zoölogy. 33	
16. Chemistry. 33	
17. Geology. 33	
The 10 in one book, C \$1.00	

— Extra numbers, edited by C. W. Bardeen, 21. Temperance Physi- ology, 33, 46; 22. Book-Keeping, 46; 23. Letter-Writing, 36, 46. Each.....	10
— Quizzism. Quirks and Quibbles from Queer Quarters. 44 P 16:25.	25
— A Quiz Book of Theory and Practice. 27, 44. C 12:220.....	1 00
Spanish and English Correspondence. 39 P 12:109.....	50
* Spencer (Herbert). <i>Education.</i> 15, 21, C 16:331.....	1 00
* Standard Teachers' Library. Includes all those starred. 15 P. Each.....	50
Stanton (Th.) <i>The Woman Question in Europe.</i> C 8:496.....	3 50
State Education for the People. 22 C 8:176.....	1 25
Steven, (Wm.) <i>History of the Edinburgh High School.</i> 17, 22 C 16:590... 2 00	
Stilwell (Lamont). <i>Practical Question Book.</i> 46 C 12:400.....	1 50
Stone (Isaac). <i>The Teacher's Examiner</i> 12:214.....	74
Stowell (T. B.) <i>Syllabus of Lectures on Physiology.</i> 33 B 8:133.....	1 04
Straight (H. H.) <i>Aspects of Industrial Education.</i> 25, 26 P 8:12.....	15
Swett (John). <i>Manual of Elocution.</i> 34 C 12:300.....	1 50
* TATE (Thos.) <i>The Philosophy of Education.</i> 15, 21 C 16:400.....	1 50
Taylor (H. F.) <i>Union School Record Cards</i> 5x8 inches. Per hundred..	2 00
* Teacher's Mentor, The. 15 C 16:274.....	1 00
Thimm (F.) <i>Manual of Conversation,</i> in Four Languages. 38 P 16:226.	60
Thomas (Flavel S.) <i>University Degrees.</i> 25 P 16:40.....	15
Thousand Questions in U. S. History. 42 C 16:200.....	1 00
Thoughts from Earnest Women. 38 16:36.....	15
Thring (Edward). <i>Addresses, with Portrait.</i> C 16:203.....	1 00
Tiedemann (D.) <i>Record of Infant Life.</i> 20, 24 P 16:46.....	50
Tillinghast (Wm.) <i>The Diadem of School Songs.</i> 29 B s 4:160.....	15

UNDERWOOD (L. M.) <i>Systematic Plant Record.</i> 33 M 4:52.....	30
Uniform Examination Paper , for Commissioners. 500 sheets.....	2 50
— Examination Questions. See <i>New York.</i>	
VAN WIE (C. B.) <i>Outlines in U. S. History.</i> 42 P 16:40 and map.....	15
— <i>Development Helps.</i> 27 L 16:100.....	50
— <i>Methods in Common Branches.</i> 27 C 16:197.....	75
WEAVER (E. W.) <i>Pictures in Language Work,</i> 36 P 8:27.....	50
Welch (Emma). <i>Intermediate Arithmetic Problems.</i> 30 C 16:172.....	75
— <i>Key to above,</i> C 16:30.....	50
Wells (C. R.) <i>Natural movement Series of Writing Books.</i> 35 Nos. 1, 2, per dozen 84 cts. Nos. 3-6, per dozen.....	96
— <i>Manual of the Movement Method in Writing.</i> 35 P 4:44. Ill.....	25
— <i>A Lesson on Arm Movement in Writing.</i> P 8:32.....	25
— (W. H.) <i>The Graded School.</i> C 12:200.....	1 00
Wheatley (Wm. A.) <i>German Declensions Made Easy.</i> 39 P 16:28.....	15
Wilkin (Eva). <i>Map Drawing Book of the Continents.</i> 40 B 4:48.....	75
— <i>Map Drawing Book of the United States.</i> 40 B 4:37.....	75
— <i>Descriptive Geography taught by means of Map Drawing.</i> Teacher's Edition. 40 B 4:129, with 49 Maps.....	1 50
* Williams (Geo. A.) <i>Topics in American History.</i> 42 C 16:180	1 00
— (Henry G.) <i>Outlines of Psychology.</i> 20 C 16:151.....	75
— (John). <i>Topical Lexicon.</i> A Dictionary of Synonyms. 36 C 12:384.	1 25
— (S. G.) <i>History of Modern Education.</i> 16 C 16:395.....	1 50
Wilson (J. D.) <i>English Grammar Made Practical.</i> C 16:112.....	75
— <i>Elementary English.</i> 36 L 16:87.....	35
Wood (H. A.) <i>Short Cuts in Arithmetic.</i> 30 C 16:149.....	75
YAWGER (Rose N.) <i>How to Celebrate Arbor Day.</i> P 16:14.....	15
— <i>The Indian and the Pioneer.</i> 15 C 8:335.. \$3.00; or in Two Volumes,	3 50
Young (W. T.) <i>The Art of Putting Questions.</i> P 16:65.....	15



YB 17392

Q.A102
H58

UNIVERSITY OF CALIFORNIA LIBRARY

The Word Method in Number.

These cards need only to be seen in at once, as the principle is already familiar. All numbers are all printed in type like the following. The importance of using script figures for this method.

The same figures are reversed so that as the teacher lifts the cards upon the other side.

As soon as the pupils commence lessons in number, and the simple figures. In this so much the pupil when adding will learn to look upon the "13," not as "4 and 9 are as we learn to look upon cat as an entire word — not as c-a-t, cat.

At first add familiar objects, passing the cards, and write the answer in the times that the method of writing numbers addition may be learned. Then use cards for drill, adding new cards from time to time, as new combinations of letters in words.

At every exercise, review all answers should be given immediately. Use the cards selected haphazardly, so that no answer can be guessed from the plan. Pursue the same plan in subtraction when the pupil readily add ten to the minuend the usual manner.

Success will be secured only after those all learned. Reviews should be constant. From scores of testimonials received we select the following:

"Will you send me one-half dozen cases of Cards? I have many inquiries for them. These sets are given away to try the card-teen packages of the cards I have ordered our class drills more, send Prof. San- him more than he advertises."—*B. G. Fulton*, N. Y., May 2, 1890. "During Normal we used Sanford's Number Cards in primary and intermediate depart- ments for quick work. Please send me three sets for our primary and prepara- tory departments here. A teacher who has once used them cannot afford to be without them."—*E. H. Cook*, College grammar school, Jan. 31, 1890. "I have frequently advised other teachers to buy Sanford's Number Cards, because I know from my own experience that they are very valuable in aiding the teacher to fix in the pupils' memory the results of the elementary processes with numbers."—*Wm. J. Milne*, LL.D., Ph.D., president New York State Teachers' College, Feb. 5, 1890.

order to be intro- duced. The im- portance of using script figures for this exercise cannot be overesti- mated.

upon the opposite side of the card card he knows the sum of the fig- ures.

ence reading, they should have be in combin- g sin- be given that the pu- combination $\frac{1}{2}$ as itself

Equal readiness should follow in subtraction, until combinations of two fig- ures are as familiar as combi- nations of letters in words.

Afterward to abstract num- bers for the blackboard, as they are on proper place. Repeat this a few times the

tions are de- cards too rapidly. cards previously used; cards presented; ing the misce- for a particular exercise laneous. can be guessed from the prece- in subtraction and multi- plication. smaller number is above. pupils will remainder in the re-

tain if new combina- tions are intro- ready presented are thoroughly be constant. be constant.

Sanford's Number Cards with great success in our departments. We found them excel- lent for quick work. Several years at the Potsdam Normal we used Sanford's Number Cards in primary and intermediate depart- ments. We found them excel- lent for quick work.

Sent post-paid in neat box, with directions, for 50 cts.
C. W. BARDEEN, Publisher, Syracuse, N. Y.