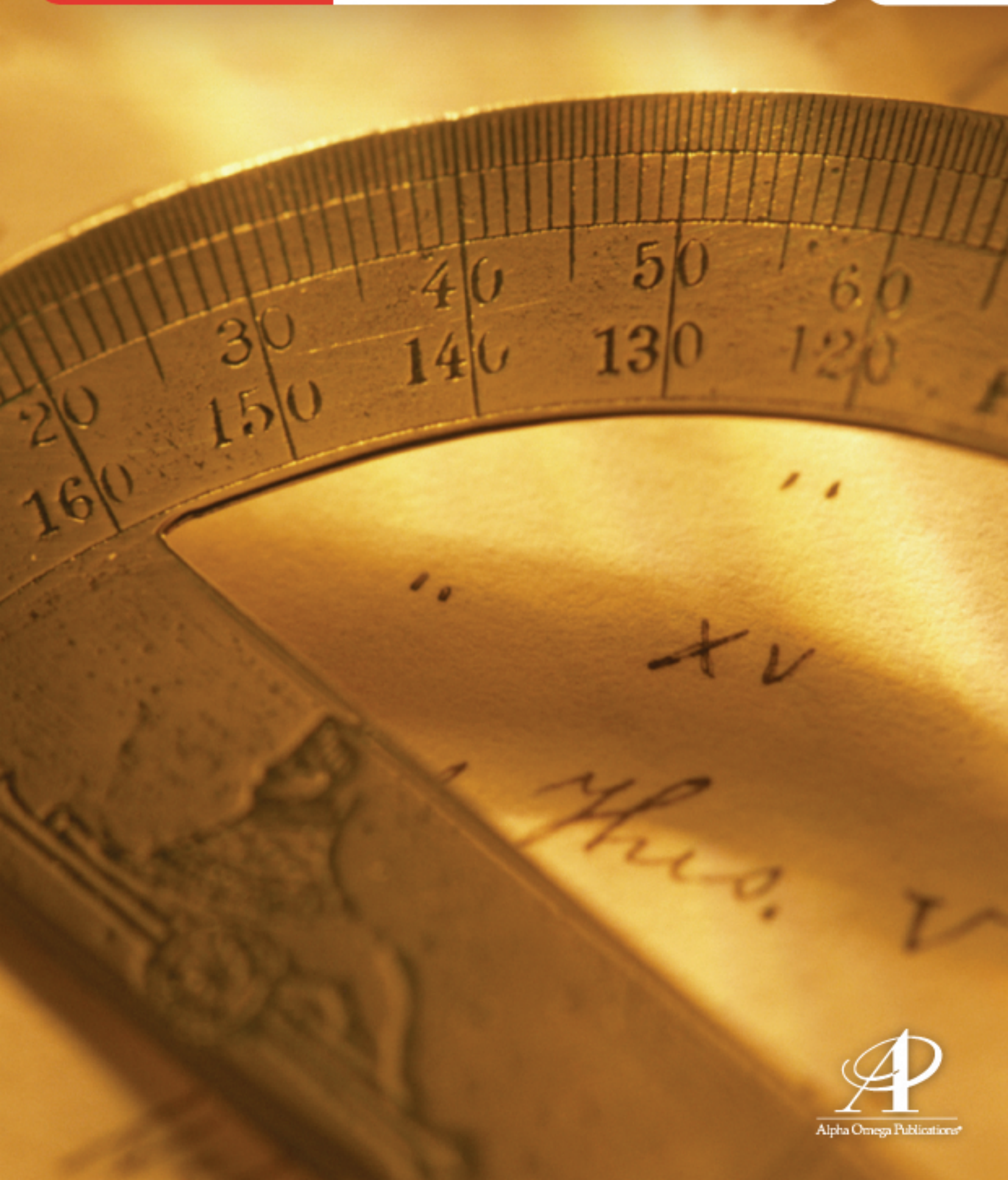
LIFEPAC® Math



Alpha Omega Publications®

MATHEMATICS 405

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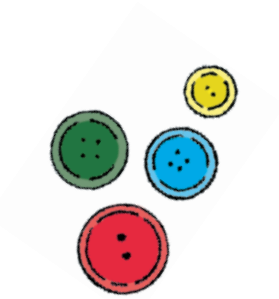
I. PART ONE

Learn Box

I can learn about division.
I can review addition, subtraction, and multiplication.



You will need objects for counting.

Division means to separate into equal parts.
Addition, subtraction, and multiplication have facts that you have learned.
Division also has facts to learn.

1.1 Use 12 objects to make 3 equal groups.

a. How many objects are there in each group? _____

b. We can say that 12 divided by 3 is equal to _____

Use 12 objects to make 4 equal groups.

c. How many objects are there in each group? _____

d. We can say that 12 divided by 4 is equal to _____

Division problems have names.

12 ÷ 3 = 4	12 is the dividend. 3 is the divisor. ÷ is the division sign. 4 is the quotient.	12 ÷ 4 = 3	12 is the dividend. 4 is the divisor. ÷ is the division sign. 3 is the quotient.

1.2 Use 15 objects to make 5 equal groups.

a. How many objects are there in each group? _____

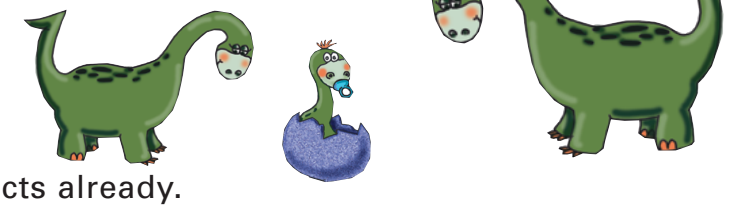
b. We can say that 15 ÷ 5 = _____

Use 15 objects to make 3 equal groups.

c. How many objects are there in each group? _____

d. We can say that 15 ÷ 3 = _____

Addition and subtraction make a **family of facts**.
Multiplication and division make a **family of facts**.



You have learned two families of facts already.

3, 4, 12	3 x 4 = 12	4 x 3 = 12	12 ÷ 3 = 4	12 ÷ 4 = 3
3, 5, 15	3 x 5 = 15	5 x 3 = 15	15 ÷ 3 = 5	15 ÷ 5 = 3

If you know your multiplication facts, you also know your division facts.

1.3 Write the missing numbers to complete the family of facts.

a.	2, 4, 8	2 x 4 = _____	4 x 2 = _____	8 ÷ 4 = _____	8 ÷ 2 = _____
b.	3, 7, 21	3 x 7 = _____	7 x 3 = _____	21 ÷ 3 = _____	21 ÷ 7 = _____
c.	5, 8, 40	5 x 8 = _____	8 x 5 = _____	40 ÷ 5 = _____	40 ÷ 8 = _____
d.	6, 9, 54	6 x 9 = _____	9 x 6 = _____	54 ÷ 6 = _____	54 ÷ 9 = _____
e.	7, 8, 56	7 x 8 = _____	8 x 7 = _____	56 ÷ 7 = _____	56 ÷ 8 = _____
f.	4, 5, 20	4 x 5 = _____	5 x 4 = _____	20 ÷ 4 = _____	20 ÷ 5 = _____

1.4 Write the number in digits. Circle it in the puzzle.

a. seventy-eight thousand, three hundred eighteen _____

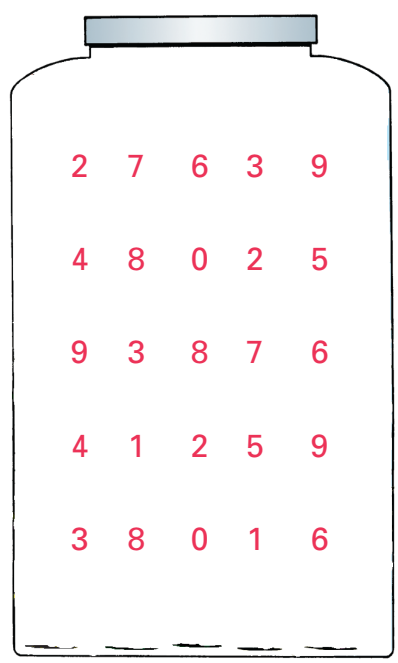
b. thirty-one thousand, eight hundred twenty-nine _____

c. seven thousand, seventy-nine _____

d. four thousand, three hundred twenty-one _____

e. seven hundred fifty-one _____

f. eight thousand, twenty-five _____



Remember to follow the rules for multiplication.

1. Multiply from right to left.
2. If the answer has two digits, write one digit and carry the other.

```
  2 2
  3 6 7
    x 4
1, 4 6 8
```

Multiply. 4 x 7 ones = 28 ones. Write the 8 ones in the ones' place and carry 2 tens.
Multiply. 4 x 6 tens = 24 tens.
Add the 2 tens = 26 tens.
Write the 6 tens in the tens' place and carry 2 hundreds.
Multiply. 4 x 3 hundreds = 12 hundreds.
Add the 2 hundreds = 14 hundreds.

1.5 Find the product. Carry when necessary.

a.	342 x 2	436 x 3	218 x 4	723 x 2
b.	525 x 3	483 x 6	242 x 5	528 x 4
c.	235 x 8	736 x 4	624 x 9	416 x 5
d.	334 x 9	117 x 7	236 x 3	582 x 6

To check problems in ...

addition ...

Add down.
Add up.

$$\begin{array}{r} 982 \\ 236 \\ +\ 746 \\ \hline 982 \end{array}$$

subtraction ...

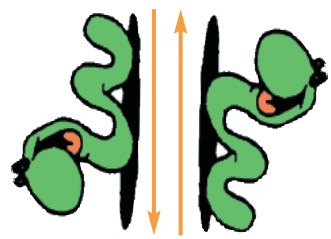
Subtract.
Add the difference to the subtrahend.
The answer is the minuend.

$$\begin{array}{r} 835 \\ -\ 476 \\ \hline +\ 359 \\ \hline 835 \end{array}$$

1.6 Complete the problems. Check your answers.

a.

$$\begin{array}{r} 632 \\ +\ 324 \\ \hline \end{array} \qquad \begin{array}{r} 847 \\ +\ 332 \\ \hline \end{array} \qquad \begin{array}{r} 526 \\ +\ 537 \\ \hline \end{array}$$



b.

$$\begin{array}{r} 1{,}763 \\ +\ 2{,}275 \\ \hline \end{array} \qquad \begin{array}{r} 6{,}892 \\ +\ 2{,}163 \\ \hline \end{array} \qquad \begin{array}{r} 9{,}420 \\ +\ 8{,}632 \\ \hline \end{array}$$

c.

$$\begin{array}{r} 963 \\ -\ 241 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 850 \\ -\ 325 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 695 \\ -\ 249 \\ \hline \\ \hline \end{array}$$

d.

$$\begin{array}{r} 4{,}968 \\ -\ 2{,}382 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 5{,}398 \\ -\ 2{,}629 \\ \hline \\ \hline \end{array} \qquad \begin{array}{r} 7{,}685 \\ -\ 4{,}896 \\ \hline \\ \hline \end{array}$$