



# MATHEMATICS 402

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# I. PART ONE

## Learn Box

I can learn multiplication facts for 6 through 10.  
I can solve problems in multiplication.

1.1 Solve and name the parts.

a.	$478$	_____	$4,863$	_____
	$+ 952$	_____	$+ 2,737$	_____
	_____	_____	_____	_____

b.	$76$	_____	$763$	_____
	$- 49$	_____	$- 496$	_____
	_____	_____	_____	_____

1.2 Answer the multiplication facts.

a.	$3 \times 2 =$	_____	$9 \times 4 =$	_____	$8 \times 3 =$	_____
b.	$7 \times 2 =$	_____	$6 \times 5 =$	_____	$7 \times 1 =$	_____
c.	$2 \times 3 =$	_____	$8 \times 4 =$	_____	$6 \times 3 =$	_____
d.	$9 \times 2 =$	_____	$3 \times 4 =$	_____	$7 \times 4 =$	_____

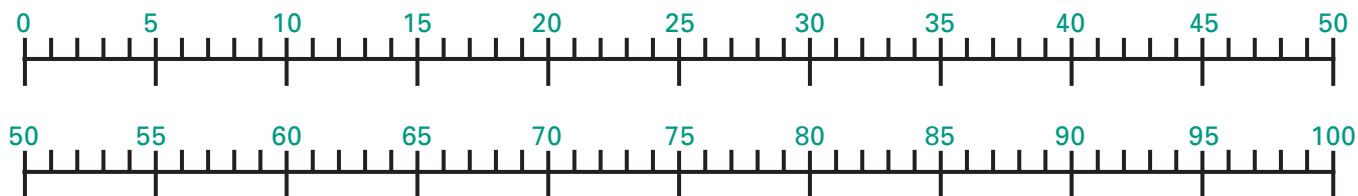
1.3 Write the problems in words. Remember hyphens!

a.	$92 + 46 = 138$	_____
b.	$63 - 37 = 26$	_____
c.	$8 \times 5 = 40$	_____

1.4 Write the numbers in order from smallest to largest.

$1,436$	$1,763$	$1,278$	$1,463$	$1,673$	$1,728$
_____	_____	_____	_____	_____	_____

You can learn the multiplication facts for 6, 7, 8, 9, and 10.



Write the facts for ...

Start at 6 on the number line.

We say one 6 is equal to 6.

Add 6 more on the number line.

We say two 6's are equal to 12.

Continue to add 6 more until you find the answer to 10 times 6.

Follow the same steps for 7, 8, 9, and 10.

Write the numbers on the lines.

- |            | 6's                      |            | 7's                      |
|------------|--------------------------|------------|--------------------------|
| <b>1.5</b> | a. $1 \times 6 =$ _____  | <b>1.6</b> | a. $1 \times 7 =$ _____  |
|            | b. $2 \times 6 =$ _____  |            | b. $2 \times 7 =$ _____  |
|            | c. $3 \times 6 =$ _____  |            | c. $3 \times 7 =$ _____  |
|            | d. $4 \times 6 =$ _____  |            | d. $4 \times 7 =$ _____  |
|            | e. $5 \times 6 =$ _____  |            | e. $5 \times 7 =$ _____  |
|            | f. $6 \times 6 =$ _____  |            | f. $6 \times 7 =$ _____  |
|            | g. $7 \times 6 =$ _____  |            | g. $7 \times 7 =$ _____  |
|            | h. $8 \times 6 =$ _____  |            | h. $8 \times 7 =$ _____  |
|            | i. $9 \times 6 =$ _____  |            | i. $9 \times 7 =$ _____  |
|            | j. $10 \times 6 =$ _____ |            | j. $10 \times 7 =$ _____ |

- |            | 8's                      |            | 9's                      |            | 10's                      |
|------------|--------------------------|------------|--------------------------|------------|---------------------------|
| <b>1.7</b> | a. $1 \times 8 =$ _____  | <b>1.8</b> | a. $1 \times 9 =$ _____  | <b>1.9</b> | a. $1 \times 10 =$ _____  |
|            | b. $2 \times 8 =$ _____  |            | b. $2 \times 9 =$ _____  |            | b. $2 \times 10 =$ _____  |
|            | c. $3 \times 8 =$ _____  |            | c. $3 \times 9 =$ _____  |            | c. $3 \times 10 =$ _____  |
|            | d. $4 \times 8 =$ _____  |            | d. $4 \times 9 =$ _____  |            | d. $4 \times 10 =$ _____  |
|            | e. $5 \times 8 =$ _____  |            | e. $5 \times 9 =$ _____  |            | e. $5 \times 10 =$ _____  |
|            | f. $6 \times 8 =$ _____  |            | f. $6 \times 9 =$ _____  |            | f. $6 \times 10 =$ _____  |
|            | g. $7 \times 8 =$ _____  |            | g. $7 \times 9 =$ _____  |            | g. $7 \times 10 =$ _____  |
|            | h. $8 \times 8 =$ _____  |            | h. $8 \times 9 =$ _____  |            | h. $8 \times 10 =$ _____  |
|            | i. $9 \times 8 =$ _____  |            | i. $9 \times 9 =$ _____  |            | i. $9 \times 10 =$ _____  |
|            | j. $10 \times 8 =$ _____ |            | j. $10 \times 9 =$ _____ |            | j. $10 \times 10 =$ _____ |

Try to learn the facts for 6 through 10 before you finish LIFE PAC 402.

Read each example. Follow the instructions and complete the problems.

1.10

$$\begin{array}{r}
 \text{tens} \quad \text{ones} \\
 2 \quad 1 \\
 \times \quad 2 \\
 \hline
 4 \quad 2
 \end{array}$$

$$\begin{array}{r}
 3 \quad 2 \\
 \times \quad 3 \\
 \hline
 \end{array}$$

Multiply ones' place.  $2 \times 1 = 2$   
 Write 2 in ones' place.  
 Multiply tens' place.  $2 \times 2 = 4$   
 Write 4 in the tens' place.  $2 \times 21 = 42$   
 Complete the problem  $3 \times 32$ .

1.11

$$\begin{array}{r}
 \text{hundreds} \quad \text{tens} \quad \text{ones} \\
 5 \quad 3 \\
 \times \quad 3 \\
 \hline
 1 \quad 5 \quad 9
 \end{array}$$

$$\begin{array}{r}
 3 \quad 1 \\
 \times \quad 4 \\
 \hline
 \end{array}$$

Multiply ones' place.  $3 \times 3 = 9$   
 Write 9 in ones' place.  
 Multiply tens' place.  $3 \times 5 = 15$   
 Write 5 in tens' place and 1 in hundreds' place.  $3 \times 53 = 159$   
 Complete the problem  $4 \times 31$ .

1.12

$$\begin{array}{r}
 \text{hundreds} \quad \text{tens} \quad \text{ones} \\
 7 \quad 4 \quad 3 \\
 \times \quad 2 \\
 \hline
 1, \quad 4 \quad 8 \quad 6
 \end{array}$$

$$\begin{array}{r}
 4 \quad 3 \quad 1 \\
 \times \quad 3 \\
 \hline
 \end{array}$$

Multiply ones' place.  $2 \times 3 = 6$   
 Write 6 in ones' place.  
 Multiply tens' place.  $2 \times 4 = 8$   
 Write 8 in tens' place.  
 Multiply hundreds' place.  $2 \times 7 = 14$   
 Write 4 in hundreds' place and 1 in thousands' place.  $2 \times 743 = 1,486$   
 Complete the problem  $3 \times 431$ .

Numbers that we multiply have special names.

412	multiplicand	In multiplication, the number being multiplied is
$\times 2$	multiplier	the <b>multiplicand</b> , the number doing the multiplying
824	product	is the <b>multiplier</b> , and the answer is the <b>product</b> .

1.13 Look at the problems in exercises 1.10, 1.11, and 1.12.

- List the multiplicands. \_\_\_\_\_
- List the multipliers. \_\_\_\_\_
- List the products. \_\_\_\_\_

1.14 Find the product.

a. 
$$\begin{array}{r} 53 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 63 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ \times 2 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 52 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 4 \\ \hline \end{array}$$

c. 
$$\begin{array}{r} 310 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 602 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 511 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 713 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 232 \\ \times 3 \\ \hline \end{array}$$

d. 
$$\begin{array}{r} 302 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 812 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 712 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 610 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 504 \\ \times 2 \\ \hline \end{array}$$

e. 
$$\begin{array}{r} 422 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 913 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 501 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 311 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 703 \\ \times 2 \\ \hline \end{array}$$