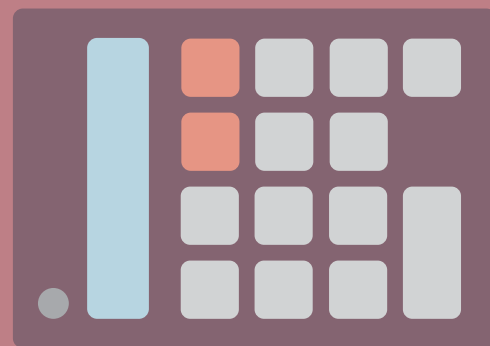




MATH

Student Book



► **4th Grade | Unit 2**

MATH 402

MULTIPLYING WHOLE NUMBERS

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1. MULTIPLICATION FACTS, 6 TO 10

Objectives

Read these objectives. When you have completed this section, you should be able to:

- Learn multiplication facts for 6 through 10.
- Solve problems in multiplication.



Complete these activities.

1.1 Solve and name the parts.

a.

$$\begin{array}{r} 478 \\ + 952 \\ \hline \end{array}$$

$$\begin{array}{r} 4,863 \\ + 2,737 \\ \hline \end{array}$$

b.

$$\begin{array}{r} 76 \\ - 49 \\ \hline \end{array}$$

$$\begin{array}{r} 763 \\ - 496 \\ \hline \end{array}$$

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!

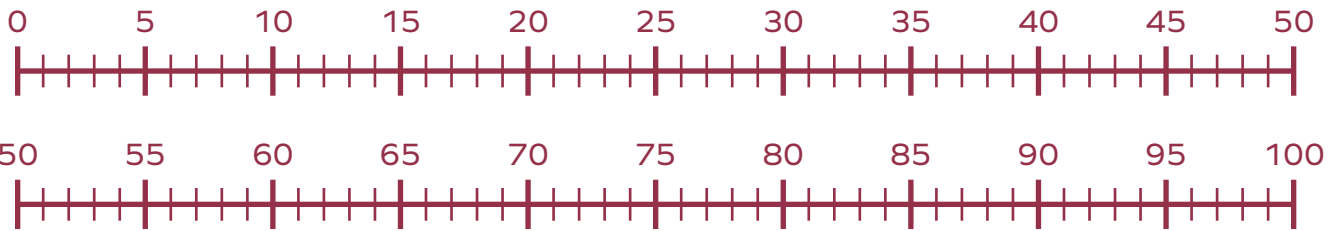
- a. $92 + 46 = 138$ _____
- b. $63 - 37 = 26$ _____
- c. $8 \times 5 = 40$ _____

1.4 Write these numbers in order from smallest to largest.

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

Multiplication Facts

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



1.5 Write the facts for 6's.

- a. $1 \times 6 =$ _____
- b. $2 \times 6 =$ _____
- c. $3 \times 6 =$ _____
- d. $4 \times 6 =$ _____
- e. $5 \times 6 =$ _____
- f. $6 \times 6 =$ _____
- g. $7 \times 6 =$ _____
- h. $8 \times 6 =$ _____
- i. $9 \times 6 =$ _____
- j. $10 \times 6 =$ _____

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.

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

1.6 Write the facts for 7's.

- a. $1 \times 7 =$ _____
- b. $2 \times 7 =$ _____
- c. $3 \times 7 =$ _____
- d. $4 \times 7 =$ _____
- e. $5 \times 7 =$ _____
- f. $6 \times 7 =$ _____
- g. $7 \times 7 =$ _____
- h. $8 \times 7 =$ _____
- i. $9 \times 7 =$ _____
- j. $10 \times 7 =$ _____

1.7 Write the facts for 8's.

- a. $1 \times 8 =$ _____
- b. $2 \times 8 =$ _____
- c. $3 \times 8 =$ _____
- d. $4 \times 8 =$ _____
- e. $5 \times 8 =$ _____
- f. $6 \times 8 =$ _____
- g. $7 \times 8 =$ _____
- h. $8 \times 8 =$ _____
- i. $9 \times 8 =$ _____
- j. $10 \times 8 =$ _____

1.8 Write the facts for 9's.

- a. $1 \times 9 =$ _____
- b. $2 \times 9 =$ _____
- c. $3 \times 9 =$ _____
- d. $4 \times 9 =$ _____
- e. $5 \times 9 =$ _____
- f. $6 \times 9 =$ _____
- g. $7 \times 9 =$ _____
- h. $8 \times 9 =$ _____
- i. $9 \times 9 =$ _____
- j. $10 \times 9 =$ _____

1.9 Write the facts for 10's.

- a. $1 \times 10 =$ _____
- b. $2 \times 10 =$ _____
- c. $3 \times 10 =$ _____
- d. $4 \times 10 =$ _____
- e. $5 \times 10 =$ _____
- f. $6 \times 10 =$ _____
- g. $7 \times 10 =$ _____
- h. $8 \times 10 =$ _____
- i. $9 \times 10 =$ _____
- j. $10 \times 10 =$ _____

Problems in Multiplication



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

1.10

	tens	ones	
	2	1	3 2
x	2	2	3
4 2			

Multiply ones' place. $2 \times 1 = 2$

Write 2 in ones' place.

Multiply tens' place. $2 \times 2 = 4$

Write 4 in tens' place. $2 \times 21 = 42$

Complete the problem 3×32 .

1.11

	hundreds	tens	ones	
	5	3	3	3 1
x	3	3	4	
1 5 9				

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 4×31 .

1.12

	hundreds	tens	ones	
	7	4	3	4 3 1
x	2	2	3	
1, 4 8 6				

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 3×431 .

Numbers that we multiply have special names.

$$\begin{array}{r} 412 \\ \times 2 \\ \hline 824 \end{array}$$

412 multiplicand
 $\times 2$ multiplier
 \hline product

In multiplication, the number being multiplied is the **multiplicand**, the number doing the multiplying is the **multiplier**, and the answer is the **product**.



Complete these activities.

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

a. List the multiplicands.

b. List the multipliers.

c. List the products.

1.14 Find the products.

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.	$\begin{array}{r} 422 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 913 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 501 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 311 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 703 \\ \times 2 \\ \hline \end{array}$
----	--	--	--	--	--

1.15 Add the coins. Write "how many" cents. Remember to write the cent sign (¢).

a.  a. _____

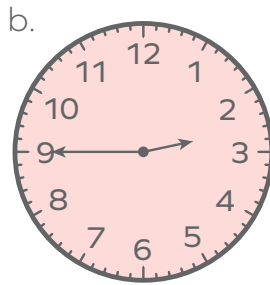
b.  b. _____

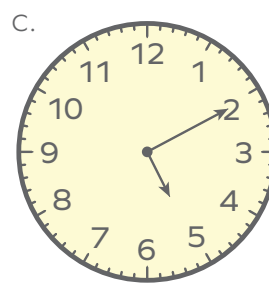
c.  c. _____

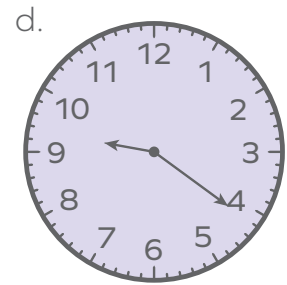
d.  d. _____

1.16 Write the correct time for each clock.









1.17 Find the sums.

$$\begin{array}{r} 37 \\ 42 \\ + 55 \\ \hline \end{array}$$

$$\begin{array}{r} 437 \\ 265 \\ + 831 \\ \hline \end{array}$$

$$\begin{array}{r} 4,386 \\ + 2,042 \\ \hline \end{array}$$

$$\begin{array}{r} 6,091 \\ + 5,483 \\ \hline \end{array}$$

$$\begin{array}{r} 6,752 \\ + 1,386 \\ \hline \end{array}$$

1.18 Find the differences.

$$\begin{array}{r} 52 \\ - 35 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ - 26 \\ \hline \end{array}$$

$$\begin{array}{r} 427 \\ - 352 \\ \hline \end{array}$$

$$\begin{array}{r} 835 \\ - 276 \\ \hline \end{array}$$

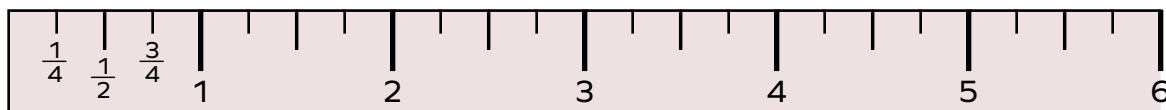
$$\begin{array}{r} 793 \\ - 541 \\ \hline \end{array}$$

1.19 Write the measurements.

- a. 1 minute = _____ seconds 1 hour = _____ minutes
- b. 1 foot = _____ inches 1 yard = _____ feet
- c. 1 day = _____ hours 1 quart = _____ pints
- d. 1 gallon = _____ quarts 1 yard = _____ inches



Look at the ruler. Count by inches to 6. Count by $\frac{1}{2}$ inches to 6. Count by $\frac{1}{4}$ inches to 6.



1.20 Use your ruler to draw a line ...

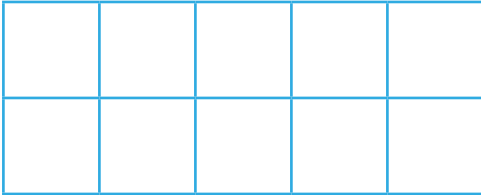
- a. 2 inches
- b. $3\frac{3}{4}$ inches
- c. $5\frac{1}{2}$ inches
- d. $4\frac{1}{4}$ inches



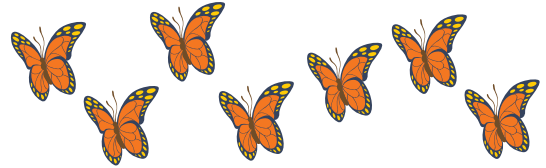
Complete these activities.

1.21 Color the parts. Write the fraction in numbers and in words.

a. Color four parts.



b. Circle three parts.



1.22 "Think" the problem. Write the answer.

a. $2 + 9 + 6 =$ _____

$7 + 4 + 8 =$ _____

b. $8 + 2 + 5 =$ _____

$4 + 5 + 3 =$ _____



Review the material in this section to prepare for the Self Test. The Self Test will check your understanding of this section. Any items you miss on this test will show you what areas you will need to restudy in order to prepare for the unit test.

SELF TEST 1

Complete these activities (each answer, 1 point).

1.01 Solve and write the names of the terms.

$$\begin{array}{r} \text{a.} \quad 365 \quad \underline{\hspace{2cm}} \\ + 540 \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 431 \quad \underline{\hspace{2cm}} \\ - 276 \quad \underline{\hspace{2cm}} \\ \hline \end{array}$$

Write the answers to the facts (each set of answers, 2 points).

1.02 a. (6×6 through 10×6)

$6 \times 6 = \underline{\hspace{2cm}}$

$7 \times 6 = \underline{\hspace{2cm}}$

$8 \times 6 = \underline{\hspace{2cm}}$

$9 \times 6 = \underline{\hspace{2cm}}$

$10 \times 6 = \underline{\hspace{2cm}}$

b. (6×7 through 10×7)

$6 \times 7 = \underline{\hspace{2cm}}$

$7 \times 7 = \underline{\hspace{2cm}}$

$8 \times 7 = \underline{\hspace{2cm}}$

$9 \times 7 = \underline{\hspace{2cm}}$

$10 \times 7 = \underline{\hspace{2cm}}$

c. (6×8 through 10×8)

$6 \times 8 = \underline{\hspace{2cm}}$

$7 \times 8 = \underline{\hspace{2cm}}$

$8 \times 8 = \underline{\hspace{2cm}}$

$9 \times 8 = \underline{\hspace{2cm}}$

$10 \times 8 = \underline{\hspace{2cm}}$

d. (6×9 through 10×9)

$6 \times 9 = \underline{\hspace{2cm}}$

$7 \times 9 = \underline{\hspace{2cm}}$

$8 \times 9 = \underline{\hspace{2cm}}$

$9 \times 9 = \underline{\hspace{2cm}}$

$10 \times 9 = \underline{\hspace{2cm}}$

e. (6×10 through 10×10)

$6 \times 10 = \underline{\hspace{2cm}}$

$7 \times 10 = \underline{\hspace{2cm}}$

$8 \times 10 = \underline{\hspace{2cm}}$

$9 \times 10 = \underline{\hspace{2cm}}$

$10 \times 10 = \underline{\hspace{2cm}}$

Complete these activities (each answer, 1 point).

1.03 Solve and write the names of the terms.

a.
$$\begin{array}{r} 31 \\ \times 4 \\ \hline \end{array}$$

1.04 Multiply.

$\begin{array}{r} 42 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 92 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 401 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 613 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 921 \\ \times 2 \\ \hline \end{array}$
---	---	--	--	--

1.05 Add the coins. Write “how many” cents. Remember to write the cent sign (¢).



1.06 Write the measurements.

- | | |
|-----------------------------|------------------------|
| a. 1 minute = _____ seconds | 1 hour = _____ minutes |
| b. 1 foot = _____ inches | 1 yard = _____ feet |
| c. 1 day = _____ hours | 1 quart = _____ pints |
| d. 1 gallon = _____ quarts | 1 yard = _____ inches |

1.07 Use your ruler to draw a line ...

- a. $1\frac{1}{2}$ inches
 b. $3\frac{1}{4}$ inches

1.08 “Think” the problem. Write the answer.

$7 + 8 + 2 =$ _____ $5 + 9 + 6 =$ _____



Teacher check:

Score _____

Initials _____

Date _____

32	/
40	



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