

## Lesson 1 Multiplication (introduction)

$2 \times 3$  is read “two times three.”

$3 \times 2$  is read “three times two.”

$4 \times 5$  is read “four times five.”

$2 \times 3$  means  $3 + 3$ .

$3 \times 2$  means  $2 + 2 + 2$ .

$4 \times 5$  means  $5 + 5 + 5 + 5$ .

$3 \times 6$  is read “three times six.”

$3 \times 6$  means \_\_\_\_\_.

$2 \times 7$  is read “two times seven.”

$2 \times 7$  means \_\_\_\_\_.

Complete the following as shown.

1.  $2 \times 5$  is read \_\_\_\_\_ “two times five” \_\_\_\_\_.

2.  $3 \times 4$  is read \_\_\_\_\_.

3.  $5 \times 2$  is read \_\_\_\_\_.

4.  $4 \times 8$  is read \_\_\_\_\_.

5.  $4 \times 7$  is read \_\_\_\_\_.

Complete the following as shown.

*a*

*b*

6.  $2 \times 4$  means \_\_\_\_\_  $4 + 4$  \_\_\_\_\_.

$4 \times 2$  means \_\_\_\_\_  $2 + 2 + 2 + 2$  \_\_\_\_\_.

7.  $3 \times 5$  means \_\_\_\_\_.

$5 \times 3$  means \_\_\_\_\_.

8.  $3 \times 7$  means \_\_\_\_\_.

$7 \times 3$  means \_\_\_\_\_.

9.  $4 \times 6$  means \_\_\_\_\_.

$6 \times 4$  means \_\_\_\_\_.

10.  $2 \times 8$  means \_\_\_\_\_.

$8 \times 2$  means \_\_\_\_\_.

11.  $3 \times 9$  means \_\_\_\_\_.

$9 \times 3$  means \_\_\_\_\_.

## Lesson 2 Multiplication (concept)

$3 \times 4$  means  $4 + 4 + 4$ .

$$\begin{array}{r} \downarrow \\ 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \downarrow \\ 4 \\ \times 4 \\ \hline 12 \end{array}$$

$4 \times 3$  means  $3 + 3 + 3 + 3$ .

$$\begin{array}{r} \downarrow \\ 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \downarrow \\ 3 \\ 3 \\ 3 \\ \times 3 \\ \hline 12 \end{array}$$

Add or multiply.

*a*

$$\begin{array}{r} 1. \quad 8 \\ \quad +8 \\ \hline \end{array}$$

*b*

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

*c*

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

*d*

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

*e*

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

*f*

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 6 \\ \quad +6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

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

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 3. \quad 9 \\ \quad +9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 2 \\ \quad 2 \\ \quad +2 \\ \hline \end{array}$$

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

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

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

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

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

$$\begin{array}{r} 5. \quad 5 \\ \quad 5 \\ \quad +5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

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

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 8 \\ \quad 8 \\ \quad +8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ 1 \\ \times 1 \\ \hline \end{array}$$

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

## Lesson 3 Multiplication (by 0 and 1)

$$\begin{array}{r} 1 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0 \\ \times 1 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$$

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

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 7 \\ \hline \end{array}$

2.	$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$
----	--	--	--	--	--	--

3.	$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$
----	--	--	--	--	--	--

4.	$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$
----	--	--	--	--	--	--

5.	$\begin{array}{r} 0 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$
----	--	--	--	--	--	--

6.	$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline \end{array}$
----	--	--	--	--	--	--

7.	$\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$
----	--	--	--	--	--	--

8.	$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline \end{array}$
----	--	--	--	--	--	--

## Lesson 3 Problem Solving



Solve each problem.

1. Molly bought two baseball cards. Each baseball card cost 9¢. How much did Molly pay for the baseball cards?

Molly bought \_\_\_\_\_ baseball cards.

Each baseball card cost \_\_\_\_\_ ¢.

Molly paid \_\_\_\_\_ ¢ for the baseball cards.

2. Cody bought two football cards. They cost 6¢ each. How much did Cody pay for the football cards?

Cody bought \_\_\_\_\_ football cards.

One football card cost \_\_\_\_\_ ¢.

Cody paid \_\_\_\_\_ ¢ for the football cards.

3. There are eight cards in each pack. How many cards are in three packs?

\_\_\_\_\_ cards are in three packs.

4. One basketball card costs 5¢. How much will eight basketball cards cost?

Eight basketball cards will cost \_\_\_\_\_ ¢.

1.

2.

3.

4.

# Lesson 4 Multiplication (facts through $5 \times 9$ )

6  $\longrightarrow$  Find the **6**-row.  
 $\times 4$   $\longrightarrow$  Find the **4**-column.  
 $\frac{\times 4}{24}$   $\longleftarrow$  The product is named where  
 the 6-row and 4-column meet.

4-column  $\curvearrowright$

$\times$	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30				
7	0	7	14	21	28	35				
8	0	8	16	24	32	40				
9	0	9	18	27	36	45				

6-row  $\dashrightarrow$

Multiply.

- |           |   |   |   |   |   |   |
|-----------|---|---|---|---|---|---|
| <b>1.</b> | $\begin{array}{r} a \\ 5 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} b \\ 8 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} c \\ 7 \\ \times 5 \\ \hline \end{array}$ | $\begin{array}{r} d \\ 6 \\ \times 5 \\ \hline \end{array}$ | $\begin{array}{r} e \\ 2 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} f \\ 4 \\ \times 3 \\ \hline \end{array}$ |
| <b>2.</b> | $\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$      | $\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$      | $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$      | $\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$      | $\begin{array}{r} 0 \\ \times 5 \\ \hline \end{array}$      | $\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$      |
| <b>3.</b> | $\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$      | $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$      | $\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$      | $\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$      | $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$      | $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$      |
| <b>4.</b> | $\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$      | $\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$      | $\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$      | $\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$      | $\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$      | $\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$      |
| <b>5.</b> | $\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$      | $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$      | $\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$      | $\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$      | $\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$      | $\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$      |
| <b>6.</b> | $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$      | $\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$      | $\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$      | $\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$      | $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$      | $\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$      |

## Lesson 4 Problem Solving

Solve each problem.

1. Ashley wants to buy five erasers. They cost  $9\text{¢}$  each. How much will she have to pay? **1.**

Ashley wants to buy \_\_\_\_\_ erasers.

One eraser costs \_\_\_\_\_  $\text{¢}$ .

Ashley will have to pay \_\_\_\_\_  $\text{¢}$ .

2. There are five rows of mailboxes. There are seven mailboxes in each row. How many mailboxes are there in all? **2.**

There are \_\_\_\_\_ mailboxes in each row.

There are \_\_\_\_\_ rows of mailboxes.

There are \_\_\_\_\_ mailboxes in all.

3. Milton, the pet monkey, eats four meals every day. How many meals does he eat in a week? **3.**

There are \_\_\_\_\_ days in a week.

Milton eats \_\_\_\_\_ meals every day.

Milton eats \_\_\_\_\_ meals in a week.

4. In a baseball game each team gets three outs per inning. How many outs does each team get in a five-inning game? **4.**

There are \_\_\_\_\_ innings in the game.

Each team gets \_\_\_\_\_ outs per inning.

Each team gets \_\_\_\_\_ outs in the five-inning game.

5. Cameron has gained 2 kg in each of the past five months. How much weight has he gained? **5.**

Cameron has gained \_\_\_\_\_ kg in five months.

## Lesson 5 Multiplication Review

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 0 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$
2.	$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$
3.	$\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$
4.	$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$
5.	$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$
6.	$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$
7.	$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$
8.	$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$
9.	$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$

## Lesson 5 Problem Solving

Solve each problem.

1. Neal has six books. Each book has a mass of 1 kg. What is the mass of all the books? **1.**

Neal has \_\_\_\_\_ books.

Each book has a mass of \_\_\_\_\_ kg.

The six books have a mass of \_\_\_\_\_ kg.

2. A basketball game has four time periods. Kate's team is to play eight games. How many periods will her team play? **2.**

Kate's team is to play \_\_\_\_\_ games.

Each game has \_\_\_\_\_ time periods.

Kate's team will play \_\_\_\_\_ time periods in all.

3. Meagan works 8 h every day. How many hours does she work in 5 days? **3.**

She works \_\_\_\_\_ h in 5 days.

4. Shane can jog 5 km in an hour. At that speed how far could he jog in 2 h? **4.**

Shane could jog \_\_\_\_\_ km in 2 h.

5. Calvin bought five bags of balloons. Each bag had six balloons. How many balloons did he buy? **5.**

Calvin bought \_\_\_\_\_ balloons in all.

6. Kristen can build a model car in 3 h. How long would it take her to build four model cars? **6.**

Kristen could build four model cars in \_\_\_\_\_ h.



**CHAPTER 8 PRACTICE TEST****Multiplication (basic facts through  $5 \times 9$ )**

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
<b>1.</b>	$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$
<b>2.</b>	$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$
<b>3.</b>	$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$
<b>4.</b>	$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$

Solve each problem.

- 5.** Nathan bought five boxes of pencils. There are six pencils in each box. How many pencils did he buy?

Nathan bought \_\_\_\_\_ boxes of pencils.

There are \_\_\_\_\_ pencils in each box.

He bought \_\_\_\_\_ pencils in all.

- 6.** Erin is to put four apples in each bag. How many apples does she need to fill eight bags?

Erin needs \_\_\_\_\_ apples in all.

- 7.** Troy bought three boxes of crayons. Each box held eight crayons. How many crayons did he buy?

Troy bought \_\_\_\_\_ crayons.

**5.****6.****7.**

**CHAPTER 9 PRETEST****Multiplication (basic facts through  $9 \times 9$ )**

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$
2.	$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$
3.	$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$
4.	$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$

Solve each problem.

5. Luke set up nine rows of chairs. He put nine chairs in each row. How many chairs did he use?

Luke used \_\_\_\_\_ chairs.

6. Bethany's dad works 8 h every day. How many hours would he work in 7 days?

He would work \_\_\_\_\_ h in 7 days.

7. There are nine players on a team. How many players are there on seven teams?

There are \_\_\_\_\_ players on seven teams.

8. Brent puts six apples into each bag. How many apples would he need to fill seven bags?

He would need \_\_\_\_\_ apples.

5.

6.

7.

8.