

Name \_\_\_\_\_

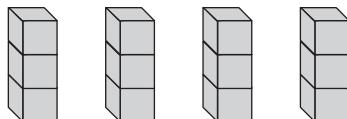
## Multiply with 2 and 4

You can skip count to help you find a product.

**Find the product.**  $4 \times 3$

**Step 1** Use cubes to model 4 groups of 3.

**Step 2** Skip count by 3s four times to find how many in all.



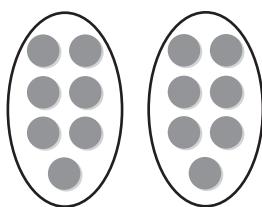
3, 6, 9, 12

4 groups of 3 is equal to 12.

So,  $4 \times 3 = 12$ .

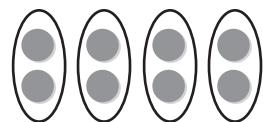
**Write a multiplication sentence for the model.**

1.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

2.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

**Find the product.**

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

4.  $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$

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

6.  $\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$

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

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

9.  $\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$

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

11.  $\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$

12.  $\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$

## What's My Number?

Solve each riddle.

1. I am a factor of 12. The other factor is 3. What number am I?

---

3. I am a product. One of my factors is 2. The other factor is 1 greater than 4. What number am I?

---

5. I am a factor of 28. The other factor is 4. What number am I?

---

7. I am a product. Both of my factors are the same number. The sum of my factors is 4. What number am I?

---

9. I am a factor of 18. The other factor is 9. What number am I?

---

11. I am a number that is four times the product of 2 and 3. One of my factors is 4. What is my other factor?

---

2. I am a factor of 12. The other factor is 2. What number am I?

---

4. I am a product. One of my factors is 7. The sum of my factors equals 11. What number am I?

---

6. I am a factor of 32. The other factor is 4. What number am I?

---

8. I am a product. One of my factors is 3. The other factor is 2 times as great. What number am I?

---

10. I am a product. One of my factors is 9. The sum of my two factors is 13. What number am I?

---

12. I am a number that is double the product of 2 and 7. One of my factors is 7. What is my other factor?

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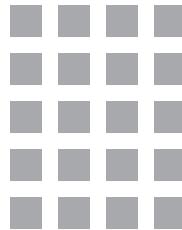
## Multiply with 5 and 10

You can use an array to multiply with 5.

**Find the product.**  $5 \times 4$

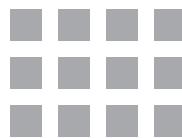
**Step 1** Make an array to show  $5 \times 4$ .

Show 5 rows of 4 tiles.



**Step 2** Count the tiles.

5 rows of 4 tiles = 20 tiles



So,  $5 \times 4 = 20$ .

You can use doubles to multiply with 10.

**Find the product.**  $6 \times 10$

**Think:**  $5 + 5 = 10$

Multiply with 5.

$$6 \times 5 = 30$$

Then double the product.

$$30 + 30 = 60$$

So,  $6 \times 10 = 60$ .

**Find the product.**

1.  $2 \times 5 = \underline{\hspace{2cm}}$    2.  $10 \times 2 = \underline{\hspace{2cm}}$    3.  $5 \times 5 = \underline{\hspace{2cm}}$    4.  $5 \times 1 = \underline{\hspace{2cm}}$

5.  $10 \times 1 = \underline{\hspace{2cm}}$    6.  $10 \times 5 = \underline{\hspace{2cm}}$    7.  $3 \times 5 = \underline{\hspace{2cm}}$    8.  $10 \times 7 = \underline{\hspace{2cm}}$

9. 
$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$$

## Unknown Numbers

Use the numbers in each oval to complete four different number sentences. Use each number in the oval only once.

<p>1. <math>5 \times \square = \square</math> <math>\square \times \square = 30</math> <math>5 \times \square = \square</math> <math>\square \times \square = 35</math></p>	<p>6 5 7 5 1 5 8 40</p>
<p>2. <math>\square \times \square = 70</math> <math>10 \times \square = \square</math> <math>10 \times \square = \square</math> <math>\square \times \square = 40</math></p>	<p>4 10 10 2 7 20 90 9</p>
<p>3. <math>5 \times \square = \square</math> <math>5 \times \square = \square</math> <math>\square \times \square = 45</math> <math>\square \times \square = 15</math></p>	<p>3 5 0 5 0 9 5 25</p>
<p>4. <math>\square \times \square = 20</math> <math>10 \times \square = \square</math> <math>\square \times \square = 10</math> <math>10 \times \square = \square</math></p>	<p>7 10 10 2 6 60 70 1</p>

5.  How are all of the products in Exercise 4 alike?

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## Multiply with 3 and 6

You can use a number line to multiply with 3 or 6.

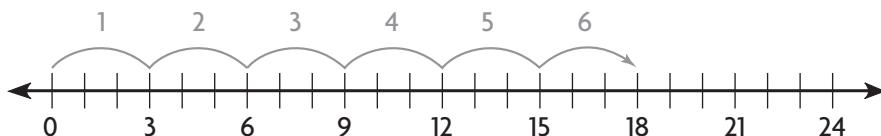
**Find the product.**  $6 \times 3$

The factor 6 tells you to make 6 jumps.

The factor 3 tells you each jump should be 3 spaces.

**Step 1** Start at 0.

Make 6 jumps of 3 spaces.



**Step 2** The number you land on is the product.

So,  $6 \times 3 = 18$ .

**Find the product.**

1.  $3 \times 1 = \underline{\hspace{2cm}}$     2.  $\underline{\hspace{2cm}} = 2 \times 6$     3.  $8 \times 3 = \underline{\hspace{2cm}}$     4.  $6 \times 6 = \underline{\hspace{2cm}}$

5.  $3 \times 0 = \underline{\hspace{2cm}}$     6.  $5 \times 6 = \underline{\hspace{2cm}}$     7.  $\underline{\hspace{2cm}} = 3 \times 5$     8.  $9 \times 6 = \underline{\hspace{2cm}}$

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

10. 
$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

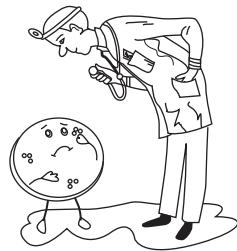
15. 
$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

## Products in Parentheses

For each exercise, multiply the numbers inside the parentheses first. Then add or subtract.

Find the answer in the code box. Write the code letter on the line above the exercise number at the bottom of the page to answer the riddle.



### CODE

A	B	C	E	F	I	L	M	N	O	R	S	T	U	W	Y
7	8	9	10	11	13	14	15	16	20	21	28	29	31	33	35

1.  $(5 \times 2) + (1 \times 3) =$  \_\_\_\_\_

2.  $(6 \times 4) + (5 \times 1) =$  \_\_\_\_\_

3.  $(7 \times 3) - (2 \times 5) =$  \_\_\_\_\_

4.  $(3 \times 6) - (4 \times 2) =$  \_\_\_\_\_

5.  $(2 \times 3) + (4 \times 2) =$  \_\_\_\_\_

6.  $(9 \times 6) - (5 \times 5) =$  \_\_\_\_\_

7.  $(9 \times 3) - (6 \times 3) =$  \_\_\_\_\_

8.  $(1 \times 3) + (3 \times 6) =$  \_\_\_\_\_

9.  $(3 \times 5) + (8 \times 2) =$  \_\_\_\_\_

10.  $(3 \times 9) - (6 \times 2) =$  \_\_\_\_\_

11.  $(3 \times 8) - (4 \times 4) =$  \_\_\_\_\_

12.  $(4 \times 2) + (9 \times 3) =$  \_\_\_\_\_

Why did the cookie go to the doctor?

—  
1    2

—  
3    4    5    6

—  
7    8    9    10    11    12

Name \_\_\_\_\_

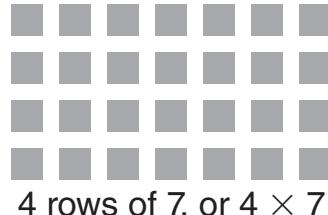
## Algebra • Distributive Property

A garden has 4 rows of 7 corn stalks. How many corn stalks in all are in the garden?

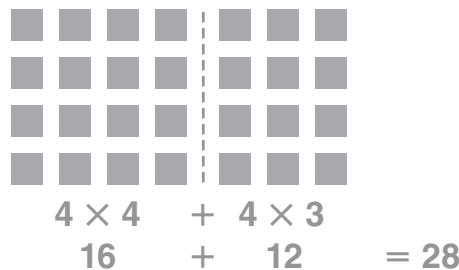
You can use the **Distributive Property** to break an array into smaller arrays to help you find the answer.

**Find  $4 \times 7$ .**

**Step 1** Make an array to show 4 rows of 7.



**Step 2** Break apart the array to make two smaller arrays for facts you know.



**Step 3** Write the multiplication for the new arrays. Multiply and then add the products to find the answer.

$$4 \times 7 = (4 \times 4) + (4 \times 3)$$

$$4 \times 7 = 16 + 12$$

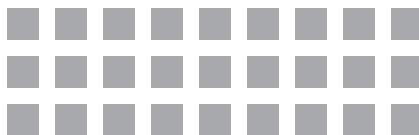
$$4 \times 7 = 28$$

So, there are **28** corn stalks in all in the garden.

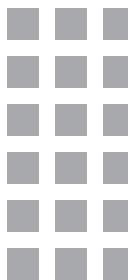
**Write one way to break apart the array.**

**Then find the product.**

1.



2.



## United Arrays

**Draw an array for each clue. Then use the arrays to solve each problem.**

1. Craig spent \$27 to buy 3 calendars. The next day, he spent another \$18 for more calendars. Each calendar cost the same amount. How many calendars did Craig buy?

---

2. On Monday, Mrs. Jones spent \$32 on 4 books. On Tuesday, she spent \$16 on more books. Each book cost the same amount. How many books did Mrs. Jones buy?

---

3. Hailey spent \$12 to buy 2 fish. Her cousin spent double the amount on fish. Each fish cost the same amount. How many fish do Hailey and her cousin have altogether?

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4.  **Explain** how you used the arrays to solve each problem.

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Name \_\_\_\_\_

## Multiply with 7

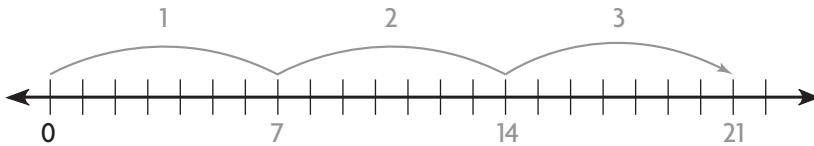
Pablo is making gift bags for his party. He puts 7 pencils in each bag. How many pencils will he need for 3 gift bags?

**Find  $3 \times 7$ .**

You can use a number line to find the product.

**Step 1** Draw a number line.

**Step 2** Start at 0. Draw 3 jumps of 7.



$$3 \times 7 = 21$$

So, Pablo will need 21 pencils for 3 gift bags.

**Find the product.**

1. \_\_\_\_\_ =  $0 \times 7$     2.  $5 \times 7 =$  \_\_\_\_\_    3.  $4 \times 7 =$  \_\_\_\_\_    4. \_\_\_\_\_ =  $6 \times 7$

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

9. 
$$\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

## Search for Unknown Factors

Find the unknown factor. Then write the word form of the unknown factor on the line below the problem.

1.  $\boxed{\quad} \times 7 = 35$ 

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2.  $\boxed{\quad} \times 7 = 7$ 

---

3.  $7 \times \boxed{\quad} = 70$ 

---

4.  $\boxed{\quad} \times 7 = 63$ 

---

5.  $\boxed{\quad} \times 7 = 0$ 

---

6.  $\boxed{\quad} \times 7 = 56$ 

---

7.  $\boxed{\quad} \times 7 = 42$ 

---

8.  $\boxed{\quad} \times 7 = 28$ 

---

9.  $\boxed{\quad} \times 7 = 14$ 

---

10.  $\boxed{\quad} \times 7 = 49$ 

---

Find each word form for Exercises 1–10 in the word search below. Words can be found written horizontally, vertically, and diagonally, as well as forward and backward.

F	I	V	E	T	O	X	E
O	W	N	H	M	W	I	I
Q	E	R	I	R	T	S	G
F	E	I	R	N	E	V	H
E	O	U	V	F	E	N	T
J	O	Y	T	E	N	M	O
F	I	N	E	V	E	S	N
F	Z	E	R	O	I	Z	T

## Algebra • Associative Property of Multiplication

You can use the **Associative Property of Multiplication** to multiply 3 factors. If you change the grouping of factors, the product remains the same.

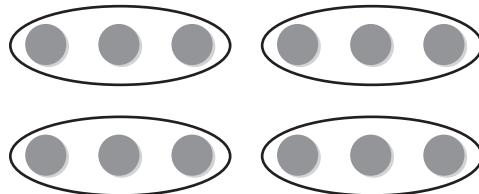
**Find**  $4 \times (3 \times 1)$ .

**Step 1** Start inside the parentheses. Make 3 groups of 1 counter.

$$(3 \times 1) \quad \bullet \bullet \bullet$$

**Step 2** Multiply by 4, the number outside the parentheses. Make 4 groups of the counters in Step 1.

$$4 \times (3 \times 1)$$



**Step 3** Count the total number of counters. 12 counters

So,  $4 \times (3 \times 1) = 12$  and  $(4 \times 3) \times 1 = 12$ .

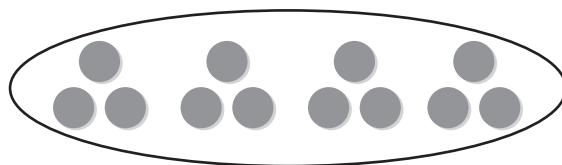
**Find**  $(4 \times 3) \times 1$ .

**Step 1** Start inside the parentheses. Make 4 groups of 3 counters.

$$(4 \times 3) \quad \bullet\bullet\bullet \quad \bullet\bullet\bullet \quad \bullet\bullet\bullet \quad \bullet\bullet\bullet$$

**Step 2** Multiply by 1, the number outside the parentheses. Make 1 group of the counters in Step 1.

$$(4 \times 3) \times 1$$



**Step 3** Count the total number of counters. 12 counters

Write another way to group the factors. Then find the product.

1.  $(2 \times 3) \times 2$

\_\_\_\_\_

2.  $2 \times (4 \times 2)$

\_\_\_\_\_

3.  $2 \times (3 \times 1)$

\_\_\_\_\_

4.  $5 \times (7 \times 1)$

\_\_\_\_\_

5.  $8 \times (4 \times 1)$

\_\_\_\_\_

6.  $2 \times (2 \times 6)$

\_\_\_\_\_

## Matching Factors and Products

Complete the number sentence in Column A. Then circle the correct product in Column B. In Column C, use 3 factors to write a number sentence for the product in Column B that is not circled.

Column A	Column B	Column C
1. $(9 \times 1) \times 2 =$ _____	18    14	
2. $7 \times (2 \times 3) =$ _____	42    16	
3. $8 \times (2 \times 2) =$ _____	48    32	
4. $(1 \times 2) \times 7 =$ _____	14    36	
5. $1 \times (3 \times 2) =$ _____	6    5	
6. $3 \times (8 \times 1) =$ _____	12    24	
7. $(3 \times 2) \times 6 =$ _____	36    40	
8. $(3 \times 3) \times 5 =$ _____	54    45	
9. $9 \times (3 \times 1) =$ _____	27    35	
10. $(7 \times 1) \times 4 =$ _____	60    28	

11.  **Explain** how you decided which factors to group in Column C.

## Algebra • Patterns on the Multiplication Table

You can use a multiplication table to explore number patterns.

**Step 1** Shade the columns for 5 and 10 on the multiplication table.

**Step 2** Look for patterns in the shaded numbers.

- The products in the 5s column end in 0 or 5.
- The products in the 5s column repeat—even, odd.
- All the products in the 10s column are even.

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Is the product even or odd? Write even or odd.

1.  $5 \times 5$  \_\_\_\_\_ 2.  $6 \times 4$  \_\_\_\_\_ 3.  $7 \times 1$  \_\_\_\_\_ 4.  $8 \times 6$  \_\_\_\_\_

Use the multiplication table. Describe a pattern you see.

5. in the row for 2

---



---



---



---

6. in the column for 3

---



---



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## Pattern Products

Follow the directions for the multiplication table.

1. Shade all of the products in the row and column for 2.
2. Circle all of the products in the row and column for 4.
3. Describe two patterns in the products that are shaded or circled.

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---

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

4. **Write Math** Why are some numbers both shaded and circled?

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5. **Stretch Your Thinking** Shade the row and column for 8. Compare the products to the products you have already shaded or circled. What patterns do you see?

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Name \_\_\_\_\_

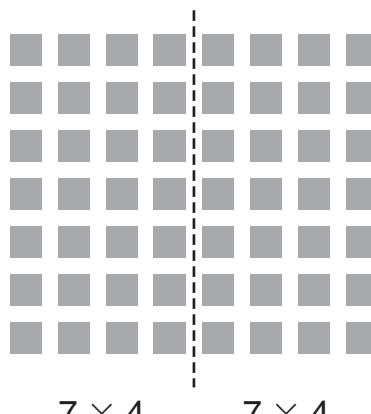
## Multiply with 8

You can break apart arrays to multiply with 8.

Candace works at a candle shop.  
She places candles in a box for display.  
The box has 7 rows of 8 candles.  
How many candles are in the box in all?

You can break apart an array to find  $7 \times 8$ .

**Step 1** Draw 7 rows of 8 squares.



**Step 2** Draw a dashed line to break apart the array into two smaller arrays to show facts you know.

$$7 \times 8 = (7 \times 4) + (7 \times 4)$$

$$7 \times 8 = 28 + 28$$

$$7 \times 8 = 56$$

So, there are 56 candles in the box.

**Find the product.**

1.  $3 \times 8 = \underline{\hspace{2cm}}$    2.  $\underline{\hspace{2cm}} = 0 \times 8$    3.  $2 \times 8 = \underline{\hspace{2cm}}$    4.  $4 \times 8 = \underline{\hspace{2cm}}$

5.  $\underline{\hspace{2cm}} = 9 \times 8$    6.  $5 \times 8 = \underline{\hspace{2cm}}$    7.  $8 \times 10 = \underline{\hspace{2cm}}$    8.  $\underline{\hspace{2cm}} = 8 \times 8$

9. 
$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

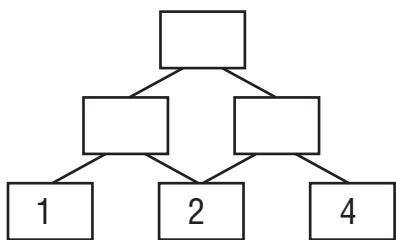
12. 
$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

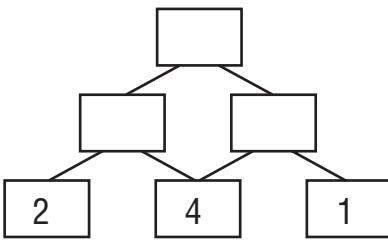
## Product Pyramids

The number in each box of a pyramid is the product of the two numbers below it. Use multiplication to find the missing numbers in each product pyramid.

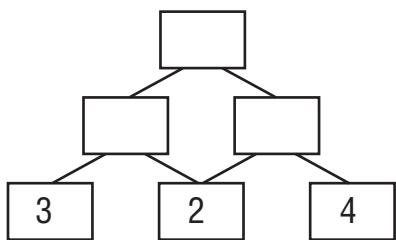
1.



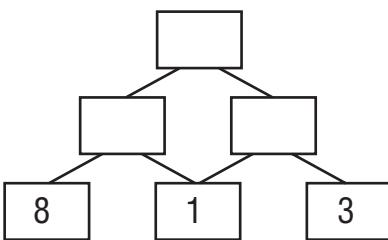
2.



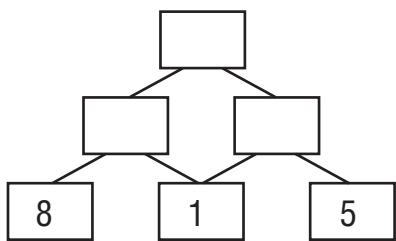
3.



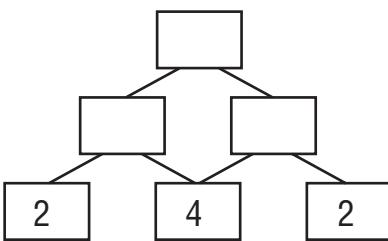
4.



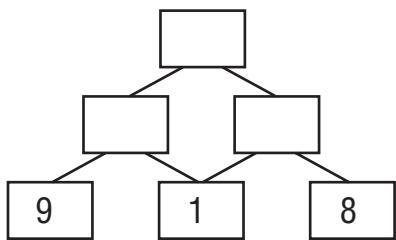
5.



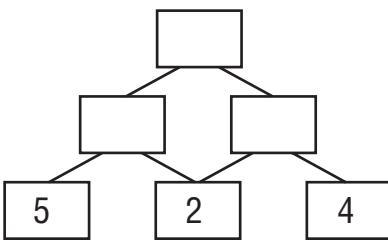
6.



7.



8.



9. Haylie's work is shown on the right. Is it correct? If not, find her mistake and write a correct answer.

To find  $8 \times 9$ , I can find  $4 \times 9$  then double the product.  
 $4 \times 9 = 32$   
 $32 + 32 = 64$   
So,  $8 \times 9 = 64$ .

Name \_\_\_\_\_

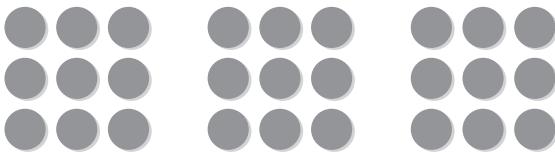
## Multiply with 9

Ana goes to the pet store to buy a fish. The store has 3 fish tanks. Each tank has 9 fish. How many fish in all are in the tanks?

You can use counters to find the product.

**Find  $3 \times 9$ .**

**Step 1** Make 3 groups of 9 counters.



**Step 2** Skip count by 9s to find the total number of counters.

9, 18, 27 counters

$$3 \times 9 = 27$$

So, there are 27 fish in all in the tanks.

**Find the product.**

1.  $4 \times 9 = \underline{\hspace{2cm}}$    2.  $6 \times 9 = \underline{\hspace{2cm}}$    3.  $3 \times 9 = \underline{\hspace{2cm}}$    4.  $7 \times 9 = \underline{\hspace{2cm}}$

5.  $1 \times 9 = \underline{\hspace{2cm}}$    6.  $\underline{\hspace{2cm}} = 8 \times 9$    7.  $9 \times 5 = \underline{\hspace{2cm}}$    8.  $\underline{\hspace{2cm}} = 0 \times 9$

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

10. 
$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$$

Name \_\_\_\_\_

**9s Riddle**

Find each product. Then find the product in the code box. Write the code letter on the line above the exercise number at the bottom of the page. Then answer the mystery question.

**CODE**

A	C	D	E	F	H	M	N	O	R	S	T	V	W	Y
27	24	40	81	90	9	36	54	18	63	25	0	12	45	72

1.  $9 \times 5 =$  \_\_\_\_\_

2.  $3 \times 8 =$  \_\_\_\_\_

3.  $0 \times 9 =$  \_\_\_\_\_

4.  $5 \times 5 =$  \_\_\_\_\_

5.  $9 \times 7 =$  \_\_\_\_\_

6.  $3 \times 9 =$  \_\_\_\_\_

7.  $9 \times 9 =$  \_\_\_\_\_

8.  $10 \times 4 =$  \_\_\_\_\_

9.  $6 \times 9 =$  \_\_\_\_\_

10.  $4 \times 9 =$  \_\_\_\_\_

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

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

13.  $8 \times 9 =$  \_\_\_\_\_

14.  $2 \times 9 =$  \_\_\_\_\_

15.  $9 \times 10 =$  \_\_\_\_\_

— 11 — 14 — 1 — — 10 — 6 — 9 — 13 —

— 15 — 6 — 2 — 3 — 14 — 5 — 4 — — 8 — 14 — 7 — 4 —

9 — — — — ? — Answer \_\_\_\_\_

Name \_\_\_\_\_

## Problem Solving • Multiplication

Lucy's mother is making punch for the students. For each pitcher, she uses 1 can of fruit juice, 1 bottle of ginger ale, and 6 scoops of sherbet. How much of each ingredient will she need to make 5 pitchers of punch?

Read the Problem	Solve the Problem																								
<p><b>What do I need to find?</b></p> <p>I need to find how much of each ingredient Lucy's mother needs to make 5 pitchers of punch.</p>	First, make a table with the information.																								
<p><b>What information do I need to use?</b></p> <p>Lucy's mother uses <u>1</u> can of fruit juice, <u>1</u> bottle of ginger ale, and <u>6</u> scoops of sherbet for each pitcher.</p>	<table border="1"> <thead> <tr> <th>Number of Pitchers</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th></tr> </thead> <tbody> <tr> <td>Cans of Fruit Juice</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr> <td>Bottles of Ginger Ale</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr> <td>Scoops of Sherbet</td><td>6</td><td>12</td><td>18</td><td>24</td><td>30</td></tr> </tbody> </table> <p>Next, look for information in the table that will help you solve the problem.</p>	Number of Pitchers	1	2	3	4	5	Cans of Fruit Juice	1	2	3	4	5	Bottles of Ginger Ale	1	2	3	4	5	Scoops of Sherbet	6	12	18	24	30
Number of Pitchers	1	2	3	4	5																				
Cans of Fruit Juice	1	2	3	4	5																				
Bottles of Ginger Ale	1	2	3	4	5																				
Scoops of Sherbet	6	12	18	24	30																				
<p><b>How will I use the information?</b></p> <p>I will make a <u>table</u> to show the total amounts of each ingredient Lucy's mother needs.</p>	<p>Look for a pattern. The cans of fruit juice and the bottles of ginger ale increase by <u>1</u>. The scoops of sherbet increase by <u>6</u>. Complete the table.</p> <p>So, Lucy's mother will need <b>5</b> cans of fruit juice, <b>5</b> bottles of ginger ale, and <b>30</b> scoops of sherbet.</p>																								

**1.** Suppose Lucy's mother decides to make 2 more pitchers of punch. How many scoops of sherbet would she need for 7 pitchers of punch? **Explain** your answer.

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**2.** Jake gives his dog 4 chew bones and 1 dog toy each month. How many chew bones and how many toys will Jake give his dog in 5 months?

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## Using Tables

**Solve.** Use a table to organize the information for 1–2.

1. Marcy uses 1 bottle of blue paint, 2 bottles of yellow paint, and 1 bottle of red paint for one painting. How many bottles of paint will she need to make 4 of the same paintings?
2. Miguel puts photos in an album. The album has 5 right-hand and 5 left-hand pages. Each right-hand page holds 4 photos. Each left-hand page holds 3 photos. How many photos will fit in the album?

Number of Paintings	1			
Blue Paint	1			
Yellow Paint	2			
Red Paint	1			

Number of Pairs of Pages	1				
Right Page	4				
Left Page	3				

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3. Renee earns 2 dimes each time she helps her mother. How many dimes will she earn if she helps her mother 4 times a day for a week?
4. Henry earns \$6 every time he waters Mr. Young's lawn. How much will Henry earn if he waters the lawn 4 times in July and 4 times in August?
5. **Stretch Your Thinking** Suppose Exercise 2 asked how many photos fit on the first 6 pages of Miguel's album. **Explain** how you could find the answer.

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