

Name \_\_\_\_\_

**Describe Patterns**

COMMON CORE STANDARD CC.3.OA.9

Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Describe a pattern for the table. Then complete the table.

1.

Pans	1	2	3	4	5
Muffins	6	12	18	24	30

Add 6 muffins for each pan; Multiply the number of pans by 6.

2.

Wagons	2	3	4	5	6
Wheels	8	12	16		

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3.

Vases	Flowers
2	14
3	
4	28
5	
6	42

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4.

Spiders	Legs
1	8
2	
3	24
4	
5	40

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**Problem Solving**



5. Caleb buys 5 cartons of yogurt. Each carton has 8 yogurt cups. How many yogurt cups does Caleb buy?

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6. Libby bought 4 packages of pencils. Each package has 6 pencils. How many pencils did Libby buy?

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Name \_\_\_\_\_

**Find Unknown Factors**

COMMON CORE STANDARD CC.3.OA.4

Represent and solve problems involving multiplication and division.

Find the unknown factor.

1.  $n \times 3 = 12$

Think: How many groups of 3 equal 12?

$n = \underline{4}$

2.  $s \times 8 = 64$

$s = \underline{\hspace{2cm}}$

3.  $21 = 7 \times n$

$n = \underline{\hspace{2cm}}$

4.  $y \times 2 = 18$

$y = \underline{\hspace{2cm}}$

5.  $5 \times p = 10$

$p = \underline{\hspace{2cm}}$

6.  $56 = 8 \times t$

$t = \underline{\hspace{2cm}}$

7.  $m \times 4 = 28$

$m = \underline{\hspace{2cm}}$

8.  $\star \times 1 = 9$

$\star = \underline{\hspace{2cm}}$

9.  $18 = 6 \times r$

$r = \underline{\hspace{2cm}}$

10.  $u \times 5 = 30$

$u = \underline{\hspace{2cm}}$

11.  $4 \times \blacksquare = 24$

$\blacksquare = \underline{\hspace{2cm}}$

12.  $w \times 7 = 35$

$w = \underline{\hspace{2cm}}$

13.  $b \times 6 = 54$

$b = \underline{\hspace{2cm}}$

14.  $5 \times \blacktriangle = 40$

$\blacktriangle = \underline{\hspace{2cm}}$

15.  $30 = d \times 3$

$d = \underline{\hspace{2cm}}$

16.  $7 \times k = 42$

$k = \underline{\hspace{2cm}}$

**Problem Solving** 17. Carmen spent \$42 for 6 hats.  
How much did each hat cost?

18. Mark has a baking tray with 24 cupcakes. The cupcakes are arranged in 4 equal rows. How many cupcakes are in each row?

Name \_\_\_\_\_

**Problem Solving • Use the Distributive Property**

COMMON CORE STANDARD CC.3.NBT.3

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Read each problem and solve.

1. Each time a student turns in a perfect spelling test, Ms. Ricks puts an achievement square on the bulletin board. There are 6 rows of squares on the bulletin board. Each row has 30 squares. How many perfect spelling tests have been turned in?

Think:  $6 \times 30 = 6 \times (10 + 10 + 10)$   
 $= 60 + 60 + 60 = 180$

180 spelling tests

2. Norma practices violin for 50 minutes every day. How many minutes does Norma practice violin in 7 days?

\_\_\_\_\_

3. A kitchen designer is creating a new backsplash for the wall behind a kitchen sink. The backsplash will have 5 rows of tiles. Each row will have 20 tiles. How many tiles are needed for the entire backsplash?

\_\_\_\_\_

4. A bowling alley keeps shoes in rows of cubbyholes. There are 9 rows of cubbyholes, with 20 cubbyholes in each row. If there is a pair of shoes in every cubbyhole, how many pairs of shoes are there?

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5. The third-grade students are traveling to the science museum in 8 buses. There are 40 students on each bus. How many students are going to the museum?

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Name \_\_\_\_\_

## Multiply Multiples of 10 by 1-Digit Numbers

COMMON CORE STANDARD CC.3.NBT.3

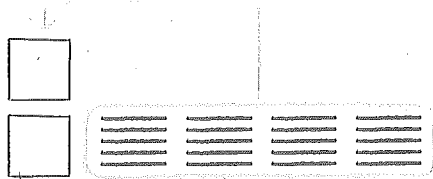
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Find the product. Use base-ten blocks or draw a quick picture.

1.  $4 \times 50 = \underline{200}$

2.  $60 \times 3 = \underline{\hspace{2cm}}$

3.  $\underline{\hspace{2cm}} = 60 \times 5$



Find the product.

4.  $\begin{array}{r} 30 \\ \times 8 \\ \hline \end{array}$

5.  $\begin{array}{r} 50 \\ \times 2 \\ \hline \end{array}$

6.  $\begin{array}{r} 60 \\ \times 7 \\ \hline \end{array}$

7.  $\begin{array}{r} 70 \\ \times 4 \\ \hline \end{array}$

8.  $6 \times 90 = \underline{\hspace{2cm}}$     9.  $9 \times 70 = \underline{\hspace{2cm}}$     10.  $8 \times 90 = \underline{\hspace{2cm}}$     11.  $\underline{\hspace{2cm}} = 6 \times 80$

### Problem Solving



12. Each model car in a set costs \$4. There are 30 different model cars in the set. How much would it cost to buy all the model cars in the set?

\_\_\_\_\_

13. Amanda exercises for 50 minutes each day. How many minutes will she exercise in 7 days?

\_\_\_\_\_

Name \_\_\_\_\_

## Chapter 5 Extra Practice

### Lesson 5.1

Describe a pattern for the table. Then complete the table.

1.

Teams	2	3	4	5	6
Players	12	18	24		

2.

Tables	4	5	6	7	8
Chairs	16	20		28	

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### Lesson 5.2

Find the unknown factor.

1.  $72 = 9 \times t$

$t = \underline{\quad}$

2.  $4 \times \star = 28$

$\star = \underline{\quad}$

3.  $b \times 5 = 30$

$b = \underline{\quad}$

4.  $d \times 3 = 24$

$d = \underline{\quad}$

5.  $48 = 8 \times p$

$p = \underline{\quad}$

6.  $6 \times \blacktriangle = 24$

$\blacktriangle = \underline{\quad}$

7.  $56 = 7 \times \blacksquare$

$\blacksquare = \underline{\quad}$

8.  $2 \times g = 20$

$g = \underline{\quad}$

9.  $h \times 7 = 35$

$h = \underline{\quad}$

10.  $9 = 9 \times a$

$a = \underline{\quad}$

11.  $c \times 4 = 36$

$c = \underline{\quad}$

12.  $5 \times y = 40$

$y = \underline{\quad}$