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Practice B	3		1423 1423					
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12. Maria puts the same amount of money in her savings account each month. She had \$450 in the account in April, \$600 in May, and \$750 in June. If she continues her savings pattern, how much money will she have in the account in July?

Name	Date	Class
Name		

# LESSON

# Practice B

# Variables and Expressions

Evaluate each expression to find the missing values in the tables.

1.	n	$n+8^2$
	7	71
	9	
	22	
	35	

n	25 – n
20	5
,5	
18	
9	

n	n • 7
8	56
9	
11	
12	

n	24 ÷ n
2	12
6	
4	
8	

5.	n	n + 15
	35	
	5	
	20	
	85	

	n	$n \cdot 2^3$
	7	
	4	
Subor. Sit	10	
	13	William Control of the Control of th

7.	A car is traveling at a speed of 55
	miles per hour. You want to write an
	algebraic expression to show how far
	the car will travel in a certain number
	of hours. What will be your constant?
	vour variable?

8.	Shawn evaluated the algebraic
	expression $x \div 4$ for $x = 12$ and gave
	an answer of 8. What was his error?
	What is the correct answer?

	Date
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Name

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# Practice B

# LESSON

Translating Between Tables and Expressions

Write an expression for the missing value in each table.

	J
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6	· 91
2	ヤレ
9gA s'siM	agA s'nsyA

Class

	q
35	9
28	7
12	3
Potatoes	Bags

slaadW	Sicycles
7	L
. 7	2
9 .	3
	q

Ш 180 120 09 Minutes Hours

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Value of Term	ε	7	S	9	2		
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Walue of Term	9	6	13	11	12	
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(s.ni) senA	(.ni) dignal	(.ni) AbiW
87	8	9
09	01	9
7.7	21	9
	1	9

its length is I inches. find the area of the rectangle when an expression that can be used to rectangle for different widths. Write The table shows the area of the 7. A rectangle has a width of 6 inches. Name \_\_\_\_\_

Date

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LESSON

#### Practice B

# 2-6 Subtraction Equations

Solve each equation. Check your answers.

1. 
$$s - 8 = 12$$

2. 
$$v - 11 = 7$$

3. 
$$9 = q - 5$$

4. 
$$m-21=5$$

5. 
$$34 = x - 12$$

6. 
$$n-45=45$$

7. 
$$t - 19 = 9$$

8. 
$$p - 6 = 27$$

9. 
$$15 = v - 68$$

Solve each equation. Check your answers.

10. 
$$7 = m - 5$$

11. 
$$r - 10 = 22$$

12. 
$$16 = x - 4$$

13. 
$$40 = p - 11$$

14. 
$$28 = d - 6$$

15. 
$$n-9=42$$

16. 
$$q - 85 = 8$$

17. 
$$f - 13 = 18$$

18. 
$$47 = w - 38$$

- 19. Ted took 17 pictures at the aquarium. He now has 7 pictures left on the roll. Write and solve a subtraction equation to find out how many photos Ted had when he went to the aquarium.
- 20. Ted bought a dolphin poster for \$12. He now has \$5. Write and solve a subtraction equation to find out how much money Ted took to the aquarium.

# LESSON

### Practice B

# Multiplication Equations

Solve each equation. Check your answers.

1. 
$$8s = 72$$

2. 
$$4v = 28$$

$$3.27 = 9q$$

4. 
$$12m = 60$$

5. 
$$48 = 6x$$

6. 
$$7n = 63$$

7. 
$$10t = 130$$

8. 
$$15p = 450$$

9. 
$$84 = 6v$$

Solve each equation. Check your answers.

10. 
$$49 = 7m$$

11. 
$$20r = 80$$

12. 
$$64 = 8x$$

13. 
$$36 = 4p$$

$$14.147 = 7d$$

15. 
$$11n = 110$$

16. 
$$12q = 144$$

17. 
$$25f = 125$$

18. 
$$128 = 16w$$

- 19. A hot-air balloon flew at 10 miles per hour. Using the variable *h*, write and solve a multiplication equation to find how many hours the balloon traveled if it covered a distance of 70 miles.
- 20. A passenger helicopter can travel 300 miles in the same time it takes a hot-air balloon to travel 20 miles. Using the variable s, write and solve a multiplication equation to find how many times faster the helicopter can travel than the hot air balloon.

# LESSON

#### Practice B

# Division Equations

Solve each equation. Check your answers.

1. 
$$\frac{s}{6} = 7$$

2. 
$$\frac{v}{5} = 9$$

3. 
$$12 = \frac{q}{7}$$

4. 
$$\frac{m}{2} = 16$$

5. 
$$26 = \frac{x}{3}$$

6. 
$$\frac{n}{8} = 4$$

7. 
$$\frac{t}{11} = 11$$

8. 
$$\frac{p}{7} = 10$$

9. 
$$7 = \frac{v}{8}$$

Solve each equation. Check your answers.

10. 
$$10 = \frac{m}{9}$$

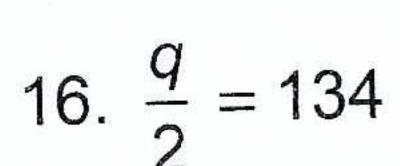
11. 
$$\frac{r}{5} = 8$$

12. 
$$11 = \frac{x}{7}$$

13. 
$$9 = \frac{p}{12}$$

14. 
$$15 = \frac{d}{5}$$

15. 
$$\frac{n}{4} = 28$$



17. 
$$\frac{u}{16} = 1$$

18. 
$$2 = \frac{W}{25}$$

- 19. All the seats in the theater are divided into 6 groups. There are 35 seats in each group. Using the variable *s*, write and solve a division equation to find how many seats there are in the theater.
- 20. There are 16 ounces in one pound. A box of nails weighs 4 pounds. Using the variable *w*, write and solve a division equation to find how many ounces the box weighs.

Name \_\_\_\_\_ Date \_\_\_\_\_

# LESSON

#### Practice B

# Scientific Notation

#### Find each product.

1. 345 • 100

2. 65.2 · 100

3. 1.84 • 1,000

Class

#### Write each number in scientific notation.

4. 16,700

5. 4,680

6. 58,340,000

# Write each number in standard form.

7.  $3.25 \cdot 10^4$ 

 $8.7.08 \cdot 10^6$ 

9.  $1.209 \cdot 10^7$ 

10. 6.8 • 10<sup>8</sup>

11.  $0.51 \cdot 10^5$ 

12.  $0.006 \cdot 10^3$ 

# Identify the answer choice that is not equal to the given number.

13. 356,000

A 300,000 + 56,000

B  $3.56 \cdot 10^5$ 

 $C 3.56 \cdot 10^4$ 

15. 1,659,000

A 1,600,000 + 59,000

B  $1.659 \cdot 10^6$ 

C  $16.59 \cdot 10^6$ 

14.  $1.28 \cdot 10^6$ 

A 100,000 + 28,000

B 1,280,000

C  $12.8 \cdot 10^5$ 

 $16.0.074 \cdot 10^3$ 

A 70.0 + 4.0

B  $7.4 \cdot 10^5$ 

 $C 7.4 \cdot 10^{1}$ 

- 17. In 2000, the population of Pennsylvania was 12,281,054. Round this figure to the nearest hundred thousand. Then write that number in scientific notation.
- 18. In 2000, the population of North Carolina was about 8.05 10<sup>6</sup>, and the population of South Carolina was about 4.01 10<sup>6</sup>. Write the combined populations of these two states in standard form.

Name \_\_\_\_\_\_

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LESSON

#### Practice B

# 3-5 Multiplying Decimals

Find each product.

1. 
$$\times 0.3$$

$$2. \times 0.05$$

3. 
$$\times 0.02$$

6. 
$$\times 0.9$$

Evaluate 8x for each value of x.

13. 
$$x = 0.5$$

14. 
$$x = 2.3$$

15. 
$$x = 0.74$$

16. 
$$x = 3.12$$

17. 
$$x = 0.587$$

18. 
$$x = 14.08$$

- 19. The average mail carrier walks
  4.8 kilometers in a workday. How far
  do most mail carriers walk in a 6-day
  week? There are 27 working days in
  July, so how far will a mail carrier
  walk in July?
- 20. A deli charges \$3.45 for a pound of turkey. If Tim wants to purchase 2.4 pounds, how much will it cost?