## **Lesson 1 Homework Practice**

## **Powers and Exponents**

Write each product using an exponent.

<b>1.</b> 20 × 20	<b>2.</b> $4 \times 4 \times 4 \times 4$	<b>3.</b> $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

Write each power as a product of the same factor. Then find the value.

4.	15 <sup>3</sup>	5.	6 <sup>5</sup>
6.	$0^{4}$	7.	1 <sup>8</sup>

# **Lesson 2 Homework Practice**

### Numerical Expressions

Find the value of each expression.

<b>8.</b> 34 + 17 – 5	<b>9.</b> 25 – 14 + 3	<b>10.</b> $39 \times (15 \div 3) - 16$

<b>11.</b> $(3+7) \times 6+4$ <b>12.</b> $4 \times (5^2-12)-6$	<b>13.</b> $9 + 7 \times (15 + 3) \div 3^2$
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## **Lesson 3 Homework Practice**

#### Algebra: Variables and Expressions

Evaluate each expression if a = 9, b = 3, and  $c = \frac{1}{3}$ . Write answers as fractions in simplest form.

**15.**  $15b + a^2$ **14.**  $a^2 \div 3$ 16.  $b^2 + 4 \cdot 6$ 

**17.** 
$$b^3 + c$$
 **18.**  $19 + 6a \div 2$  **19.**  $4b^2 \cdot 3$ 

**20.** 
$$3c \div (2b^2)$$
 **21.**  $a^2 - (3c)$  **22.**  $ac \div (2b)$ 

# **Lesson 4 Homework Practice**

## Algebra: Write Expressions

#### Define a variable. Then write each phrase as an algebraic expression.

<b>23.</b> nine less than a number	<b>24.</b> five times the number of books in the library
<b>25.</b> three more pancakes than his brother ate	<b>26.</b> two more than seven times Lynn's age
<b>27.</b> 9 minutes less than Frances' time	<b>28.</b> Stacy's pencils split evenly into four piles