

## Unit 0 Review

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each expression.**

1)  $(-8) - (-6)$

2)  $2 + (-8) - (-7)$

3)  $6 + (-3) - 4 - (-7)$

4)  $\left(-\frac{5}{3}\right) + \frac{1}{2}$

**Find each product.**

5)  $-3 \cdot 3 \cdot -1$

6)  $-\frac{1}{8} \cdot -\frac{4}{3}$

**Find each quotient.**

7)  $\frac{-18}{-9}$

8)  $\frac{-12}{6}$

**Evaluate each expression.**

9)  $4 + 6(1 + 3) - 3$

10)  $4 - (2 - 1)$

11)  $9 \div (4 \cdot 2 - 5)$

12)  $\frac{18 - (2 + 2^2)}{2 + 4}$

13)  $m - n^2$ ; use  $m = 5$ , and  $n = 1$

14)  $p \div 2 + n$ ; use  $n = 3$ , and  $p = 2$

**Write an algebraic expression for each word phrase.**

15) 3 more than twice a number

16) 9 less than the quotient of 6 and a number

17) 8 less than the product of a number and 4

18) twice the sum of a number and 8

**Simplify each expression by combining like terms.**

19)  $1 - 5k + 3k - 2$

20)  $-4x^2 + 6x^2 - 10x + 3x$

**Simplify using the distributive property.**

21)  $6(7 + 4n)$

22)  $2(x + 5y + 3)$

23)  $(2a + 1)(5a - 1)$

24)  $(r - 3)(2r - 5)$

## Unit 0 Review

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each expression.**

1)  $(-8) - (-6)$

 $-2$ 

2)  $2 + (-8) - (-7)$

 $1$ 

3)  $6 + (-3) - 4 - (-7)$

 $6$ 

4)  $\left(-\frac{5}{3}\right) + \frac{1}{2} - \frac{7}{6}$

**Find each product.**

5)  $-3 \cdot 3 \cdot -1$

 $9$ 

6)  $-\frac{1}{8} \cdot -\frac{4}{3}$

 $\frac{1}{6}$ **Find each quotient.**

7)  $\frac{-18}{-9}$

 $2$ 

8)  $\frac{-12}{6}$

 $-2$

**Evaluate each expression.**

9)  $4 + 6(1 + 3) - 3$

25

10)  $4 - (2 - 1)$

3

11)  $9 \div (4 \cdot 2 - 5)$

3

12)  $\frac{18 - (2 + 2^2)}{2 + 4}$

2

13)  $m - n^2$ ; use  $m = 5$ , and  $n = 1$

4

14)  $p \div 2 + n$ ; use  $n = 3$ , and  $p = 2$

4

**Write an algebraic expression for each word phrase.**

15) 3 more than twice a number

$$2n+3$$

16) 9 less than the quotient of 6 and a number

$$\frac{6}{n} - 9$$

17) 8 less than the product of a number and 4

$$4x - 8$$

18) twice the sum of a number and 8

**Simplify each expression by combining like terms.**

19)  $1 - 5k + 3k - 2$

$$-1 - 2k$$

20)  $-4x^2 + 6x^2 - 10x + 3x$

$$2x^2 - 7x$$

**Simplify using the distributive property.**

21)  $6(7 + 4n)$

$$42 + 24n$$

22)  $2(x + 5y + 3)$

$$2x + 10y + 6$$

23)  $(2a + 1)(5a - 1)$

$$10a^2 + 3a - 1$$

24)  $(r - 3)(2r - 5)$

$$2r^2 - 11r + 15$$

For each example on the left, write the letter of the matching property from the right.

\_\_\_\_\_ 25)  $(-2) + 3 = 3 + (-2)$

A) Commutative Property of Addition

\_\_\_\_\_ 26)  $(7 + 6) + 2 = 7 + (6 + 2)$

B) Commutative Property of Multiplication

\_\_\_\_\_ 27)  $-2(-1) = 2$

C) Distributive Property

\_\_\_\_\_ 28)  $(-9a)(2) = (2)(-9a)$

D) Associative Property of Addition

\_\_\_\_\_ 29)  $5x(0) = 0$

E) Associate Property of Multiplication

\_\_\_\_\_ 30)  $(a \cdot b) \cdot 7 = a \cdot (b \cdot 7)$

F) Associative Property of Subtraction

\_\_\_\_\_ 31)  $5(1) = 5$

G) Identity Property of Addition

\_\_\_\_\_ 32)  $2(3x + y) = 6x + 2y$

H) Identity Property of Multiplication

\_\_\_\_\_ 33)  $p + 0 = p$

I) Multiplication Property of Zero

J) Multiplication Property of -1.