

Unit 0 Review

Date _____ Period _____

Evaluate each expression.

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

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

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

4) $(-6) + (-4) + (-3) + 5$

Find each product.

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

6) $(-4)(3)(-1)(-2)$

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

Write an algebraic EQUATION for each word phrase. Do not solve!

17) 8 less than the product of a number and 4
is 20

18) twice the sum of a number and 8 is -10

Write an algebraic INEQUALITY for each word phrase. Do not solve!

19) a number no less than 12

20) a number is at most 16

Simplify each expression by combining like terms.

21) $1 - 5k + 3k - 2$

22) $-4x^2 + 6x^2 - 10x + 3x$

Simplify using the distributive property.

23) $6(7 + 4n)$

24) $2(x + 5y + 3)$

Simplify each expression.

25) $1 + 5(3r - 3)$

26) $-4n - 2(3 + 6n)$

Give the perimeter of each figure as a simplified expression.

27)

28)

Unit 0 Review

Date _____ Period _____

Evaluate each expression.

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

 -2

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

 1

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

 6

4) $(-6) + (-4) + (-3) + 5$

 -8 **Find each product.**

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

 9

6) $(-4)(3)(-1)(-2)$

 -24 **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

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

Write an algebraic EQUATION for each word phrase. Do not solve!

17) 8 less than the product of a number and 4
is 20

$$4x - 8 = 20$$

18) twice the sum of a number and 8 is -10

$$2(p + 8) = -10$$

Write an algebraic INEQUALITY for each word phrase. Do not solve!

19) a number no less than 12

$$n \geq 12$$

20) a number is at most 16

$$n \leq 16$$

Simplify each expression by combining like terms.

21) $1 - 5k + 3k - 2$

$-1 - 2k$

22) $-4x^2 + 6x^2 - 10x + 3x$

$2x^2 - 7x$

Simplify using the distributive property.

23) $6(7 + 4n)$

$42 + 24n$

24) $2(x + 5y + 3)$

$2x + 10y + 6$

Simplify each expression.

25) $1 + 5(3r - 3)$

$-14 + 15r$

26) $-4n - 2(3 + 6n)$

$-16n - 6$

Give the perimeter of each figure as a simplified expression.

27)

$6x + 5$

28)

$6x + 8y$