

Practice 1.7, 2.1, 2.2

Name \_\_\_\_\_

(1.7) Identify the following as an equation or an expression.

1)  $x + 18x - 3$

2)  $16 + 9(x - 8)$

Combine like terms in the expression. Answer "not possible" if terms cannot be combined.

3)  $5x + 8x$

4)  $26x - y$

5)  $90m^2n + 80m^2n$

Simplify the expression.

6)  $8a + 11 + 7a$

7)  $2(x + 7) - 14$

8)  $ab + 7x + 2ab + 13x$

(2.1) Evaluate the absolute value.

9)  $|-18|$

Simplify the absolute value expression.

10)  $-|-16|$

Place the correct symbol,  $<$ ,  $>$ , or  $=$ , in the blank between the expressions.

11)  $-|-7|$  \_\_\_\_  $|-7|$

12)  $-|-30|$  \_\_\_\_  $-30$

(2.2) Find the sum.

13)  $-17 + 17$

14)  $-2 + (-8)$

15)  $-21 + (-21)$

State the addition property illustrated by the given equation.

16)  $-21 + 23 = 23 + (-21)$

17)  $(-13 + 9) + 56 = -13 + (9 + 56)$

18)  $-547 + 0 = -547$

The associative and commutative properties for addition allow for three or more integers to be added in any order. Find the given sum.

19)  $-34 + 19 + 15$

20)  $-4 + (-10) + (-12)$

21)  $-10 + 11 + 0 + (-9)$

Evaluate the expression  $x + y$  for the given values of the variables.

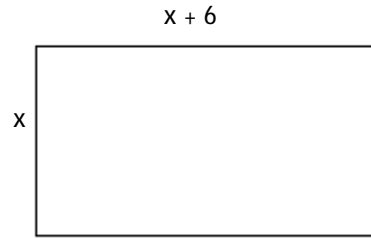
22)  $x = -90, y = 0$

23)  $x = -16, y = -12$

Solve the problem.

- 24) A game is played with red and blue tokens. If each red token represents  $-1$  point and each blue token represents  $+1$  point, what is the total point value of 12 red tokens and 11 blue tokens?

- 26) The rectangle in the following figure has a perimeter of 148 inches. If the length measures  $(x + 6)$  inches and the width measures  $x$  inches, find  $x$ .



- 25) Marco had a balance of \$440 in his checking account. The following positive entries (deposits) and negative entries (withdrawals) are made to the account.  
-102, 718, and -501  
What is the current balance in his account?

- 27) Five more than a number is equal to the difference of forty-one and the number. Find the number.

## Answer Key

Testname: WKS\_1.7\_2.1\_2.2

- 1) Expression
- 2) Expression
- 3)  $13x$
- 4) not possible
- 5)  $170m^2n$
- 6)  $15a + 11$
- 7)  $2x$
- 8)  $3ab + 20x$
- 9) 18
- 10) -16
- 11)  $<$
- 12)  $=$
- 13) 0
- 14) -10
- 15) -42
- 16) Commutative
- 17) Associative
- 18) Identity
- 19) 0
- 20) -26
- 21) -8
- 22) -90
- 23) -28
- 24) -1
- 25) \$555
- 26) 34 in.
- 27) 18