**Block 1 Review ~ Expressions and Equations**

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

**1.** What is the value of the expression below?



A. 20

B. 24.5

C. 32

D. 37

**2.** Which of the following expressions have a value of 14? Circle all that apply.

A.  B. 

C.  D. 

E.  F. 

**3.** What is the value of  when  and ?

A. −27

B. −2

C. 9

D. 38

**4.**  What is the value of  when  and ?

A. −9

B. −3

C. −2

D. 12

**5.**  Which of the following expressions is  in simplest form?

A. 

B. 

C. 

D. 

**6.** Which of the following expressions represents the perimeter of the figure below?

*x* + 4

*x* + 4

*x* + 1

*x* + 1

A. 

B. 

C. 

D. 

**7.** The product of *w* and eight is twenty-four. What is the value of *w*?

A. 32

B. 16

C. 3

D. 

**For numbers 8a – 8c, determine whether each statement is true or false.**

**8a.** Six less than the quotient

TRUE FALSE

 of 8 and *x* is four can be

 written 

**8b.** The solution to the equation

TRUE FALSE

  is a whole number.

**8c.** The equation 

TRUE FALSE

 uses two different inverse

 operations when solving.

**9.** Which of the following equations have a solution of *y* = −22? Circle all that apply.

A.  B. 

C.  D. 

E.  F. 

**10.** What is the solution of the equation below?



A. *x* = 

B. *x* = 7

C. *x* = 39

D. *x* = 63

**11.**  What is the solution of the equation below?



A. 

B. 

C. 

D. 

**For numbers 12a – 12c, determine whether each statement is true or false.**

**12a .** A linear equation has

TRUE FALSE

 **ONE** solution when the

 variable equals zero.

**12b .** A linear equation has

 **INFINITELY MANY**

TRUE FALSE

 solutions when both sides

 of the equation are

 equivalent.

**12c .** A linear equation has

 **ONE** solution when the

TRUE FALSE

 equation makes a false

 statement.

**13.** Drew had $48 in his savings account. Each week he added $8 to his account. Stacie had $87 in her account. Each week she took $5 out. After how many weeks will they have the same amount of money in their savings accounts?

A. 2

B. 3

C. 4

D. 72