## CHAPTER 1 REVIEW

## Directions: Evaluate each expression.

2) 
$$50 - [7 + (3^2 \div 2)]$$

3) 
$$15x - 8$$
 when x=2

4) 
$$2(x-1)^2$$
 when x = 4

## Directions: Write an expression for the verbal situation.

5) 3 times the square of a number x.

6)The product of a number z and 12 is 60

Directions: Solve using mental math.

7) 
$$9 - h = 3$$

8) 
$$5v = 25$$

Directions: Check to see if the given number is a solution.

10) 
$$\frac{b}{6}$$
 + 2 < 10; 24

11) 
$$2 + \frac{x}{3} \le -1$$
; 15

**Directions**: Simplify the expression.

12) 
$$11 - \sqrt{2(4) + 1}$$

15) 
$$\frac{2[(3-7)+1]}{7+2}$$

16) 
$$8-5(3+1)$$

<u>Directions</u>: Evaluate the expression.

17) 
$$\frac{3n+6}{n^3}$$
 when n = 2

19) 
$$3x - 4y$$
 when  $x = 2$  and  $y = -3$ 

<u>Directions</u>: Translate the verbal phrase into an algebraic expression, equation, or inequality.

 $20)^4$  less than the quantity 6 times a number n

 $21)^3$  times the sum of 7 and a number y

The difference of 22 and the square of a 22) number m

23) The quotient of 5 and x cubed is 17.

Directions: Translate the verbal phrase into an algebraic expression, equation, or inequality.

24) 6 fewer than x is at least 21.

25) 4 is greater than or equal to x decreased by 2.

26)Mark scored x points in a game. Her friend Anna scored 5 points less than her. Write an expression to describe Anna's score?

27)Amount you spend if you buy x number of hats shirts at \$20 each. Write an expression for this situation.

## 28) Complete the exercise below.

Number	Circle the number sets in which the number lies.			
$\sqrt{3}$	Whole	Integer	Rational	Irrational
0	Whole	Integer	Rational	Irrational
-15	Whole	Integer	Rational	Irrational
$\frac{4}{7}$	Whole	Integer	Rational	Irrational
$-\sqrt{9}$	Whole	Integer	Rational	Irrational
-7	Whole	Integer	Rational	Irrational

29) **MULTIPLE CHOICE**: Which of the following is an irrational number?

- A. 4.735
- B. 1.6714273....
- C. 0.9191919191.....
- D.  $73.13\overline{24}$