***Revision on Units 4 & 5***

***Choose the correct answer.***

1. If 3 x = 27, then x =

a. 27+3 b. 27-3

c. 27x3 d. 27$÷$3

2. Which are the three possible solutions for the inequality: x<-1?

a. 0,1 and 2 b.-2,-3 and-4

c. 0,-1and-2 d. 4,5 and 6

3. All of the following belong to the solutions of x > - 8 except

a. 9 b.-1 c.-10 d. -7

***2. Complete the following:***

1. If x+26, then x +3=

2. If 3 x = 6, then x + 5 =………

3. If 8 m= 0, then 100 m =………

4. If 3 m = 12, then $\frac{1 }{2}$ m=……….

***3. Choose the correct answer.***

1. The sign shows the speed limit for a road in kilometers per hour. Which of the following speeds is acceptable to drive on the road?

a. 100 km/hr b. 120 km/hr

c. 95 km/hr d. 80 km/hr

2. Which of the following is a solution of the inequality x≥-2?

a.-5 b.-2 c.-10 d.-3

3. If x + 4.5 = 5.7, then x =………..

a. 1.2 b. 1.3 c. 9.2 d. 10.2

***4. Answer the following questions:***

1. Solve each of the following equations

a. 5t=20

2. Name 3 solutions of each inequality. Then graph the inequality on a number line in the set of integers. a. x ≤-3

 ***5. Choose the correct answer:***

1. Which of the following is an equation?

a. 20 x +1.3 b. Twice a number.

c. 3 + a d. a + 9 =f

2. The dependent in the equation : y = 2 b is………..

a. y b. b c. 2 d. 4

3. In the equation: y=6x+4, ifx=3,

then y =……….

a. 10 b. 22 c. 18 d. 67

4. If y = 3x+9, then the independent variable is………..

a. 9 b. x c. y d. 3

***6. Complete the following:***

1. The verbal phrase for: w + 12 = 17 is……..

2. If the number [a] depends on another number [b], then the dependent variable is…………

3. If the rule is "Add 9", then the equation is………….

4. "30 more than g equals h "in equation is…………..

***7. Choose the correct answer:***

1. In the equation: y = 2x, if the input is 5, then the output is………………

a. 12 b. 50 c. O d. 10

2. In the equation: y = 2x+10, the constant is……………..

a. 10 b. x c. y d. 2

3. The ordered pair which satisfies the equation: y = x + 2 is………….

a. (0,0) b. (1,2)

c. (2,4) d. (3,6)

4. In the equation: y =x+1, if the output is 1, then the input is………….

a. 0 b. 1 c. 2 d. 3

***8. Answer the following questions:***

1. Write a verbal phrase for each of the following.

a. p = 8L

2. Complete the following table, then represent the equation:

|  |  |  |  |
| --- | --- | --- | --- |
| X | 0 | 2 | 4 |
| Y |  |  |  |
| (X,Y) | (0,…….) | (2,..…..) | (4,……) |

 The equation: y=2x+1