<u>Algebra</u>

I) Fill in the blanks:

- 1. Letters used to represent numbers are called
- 2. The literals whose value vary from problem to problem are called _____
- 3. Numerals whose value is fixed are called
- 4. The statement of equality which involves literals is called an _____
- 5. The value of the variable which satisfies the equation is called the _to the equation.

Write the expression: II)

- 1. m increased by 8.
- 2. b decreased by 31.
- 3. Five items x increased by 5 gives 55.
- Half of p subtracted from the sum of a and b. 4.
- 5. Product of 7 and x divided by the difference of 7 and x.
- Sum of p, q and r divided by the product of a and 5. 6.
- 7. One fourth of the difference of x and y.
- 8. 4 subtracted from n, gives 36.
- 9. z minus twice x.
- 10. m taken away from 50, gives 15.

III) Identify the solution and show that other values do not satisfy

- 1. X+8=24 (x=3, x=15, x=16, x=0)
- 2. 4a=32 (a=8, a=4, a=6, a=7)
- 3. y-9=29(y=20, y=38, y=37, y=39)

4.
$$\frac{p}{5}$$
 =16 (p=75, p=85, p=90, p=80)

IV) Solve:

- 1.X+11=30
- 2.6a = 24
- 3.m-5=2

$$4.\frac{x}{4} = 2$$

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$$5.\frac{x}{7} = 5$$

$$6.\frac{a}{9} = 4$$

$$7.10n = 70$$

$$8.16=y+10$$

$$9.t - 14 = 0$$

10.
$$4x=32$$

Answers:

I) 1. Variables 2. Variables 3. Constants 4. Equation 5. Solution

II) 1.
$$m+82$$
. $b-31$ 3.5 $x+5=55$

$$3.5x + 5 = 55$$

$$4.(a+b) - \frac{1}{2}p$$

$$5. \frac{7x}{7-x}$$

5.
$$\frac{7x}{7-x}$$
 6. $\frac{p+q+r}{5a}$ 7. $\frac{1}{4}(x-y)$

$$9.z-2x10.50-m=15$$

III) 1.
$$x=16$$

$$2.a = 8$$

$$3.y = 38$$

$$4.p = 80$$

$$IV$$
) 1. $x=19$

$$2.a = 4$$

$$3.m = 7$$

$$5.x = 35$$

$$7.n=7$$

$$8.y = 6$$

$$9.t = 14$$

$$10.x = 8$$

$$11.p=2$$