Worksheet -8

Subject: - Mathematics

Class: - VIII Teacher: - Ms. Neeru

Name: _____ Class & Sec: _____ Roll No. ____ Date: __.08.2020

LINEAR EQUATION IN ONE VARIABLE

 Solve the following Equations (2) marks each)

a)
$$(2x-5)/(3x-1) = (2x-1)/(3x+2)$$

b)
$$(3-7x)/(15+2x)=0$$

c)
$$(0.4y - 3)/(1.5y + 9) = -7/5$$

d)
$$2/(3x-1) + 3/(3x+1) = 5/3x$$

e)
$$2/(x-3) + 1/(x-1) = 5/(x-1) -$$

2/(x-2)

f)
$$15(x-y)-3(x-9)+5(x+6)=0$$

g)
$$y/2 - 1/2 = y/3 + 1/4$$

h)
$$(0.5y - 9)/0.25 = 4y - 3$$

i) (t)
$$[17(2-y) - 5(y+12)]/(1-7y)$$

ANSWERS

- (a) -11/6
- (b) 3/7
- (c) 96/25
- (d) 5/3
- (e) 7/3
- (f) -1/6
- (g) 9/2
- (h) -16.5
- (i) 1

Multiple choice questions

Linear Equation in One Variable

1. What do we get when we transpose 5/2 to RHS in the equation x/4 + 5/2 = -3/3?

1.
$$x/4 = -3/4 + 5/2$$

II.
$$x/4 = -5/2 + \frac{3}{4}$$

III.
$$x/4 = -3/4 + (-5/2)$$

- IV. none of these
- 2. In the equation 3x = 4-x, transposing -x to LHS we get

1.
$$3x - x = 4$$

II.
$$3x + x = 4$$

III.
$$-3x + x = 4$$

IV.
$$-3x - x = 4$$

3. If x/3 + 1 = 7/15, then which of the following is correct?

I.
$$x/3 = 7/15 - 1$$

II.
$$x/3 = -7/15 + 1$$

III.
$$x/3 = -7/15 - 1$$

IV. none of these

4. If 7x+15 = 50, then which of the following is the root of the equation?

- I. -5
- II. 65/7
- III. 5
- IV. 1/5

5. If 2x/5 = 4, the value of x is-

- I. 10
- II. -10
- III. -8/5
- IV. 8/5

6. If the sum of two consecutive numbers is 71 and one number is x, then the other number is-

I.
$$x + (x+1) = 71$$

II.
$$x + (x+2) = 71$$

III.
$$x + x = 71$$

IV. none of these

7. Two year ago my age was x years, then what was my age 5 years ago?

- I. X + 7
- II. X-2-5
- III. X-5
- IV. X-3

8. How old will I be after 10 years, if my age before 10 years was 'x' years?

- I. X + 20
- II. X 20
- III. X + 10
- IV. X-10

9. If x is an even number, which is the next odd number?

- I. X + 1
- II. X+2
- III. X 1
- IV. X-2

*****ANSWERS *****

- 1. iii
- 2. ii
- 3. i
- 4. iii (soln/root)
- 5. i
- 6. i
- 7. iv
- 8. i
- 9. i