

Worksheet –RT2

Subject: - Mathematics

Class: - VIII

Teacher: - Ms. Neeru

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

Explanation:

Q16

$$x = \frac{4}{5}(x + 10)$$

by transposing 5 to other side, we get

$$5x = 4(x+10)$$

$5x = 4x + 40$ (opening the bracket and multiplying it by 4)

$$5x - 4x = 40 \text{ (transposing } 4x \text{ to L.H.S.)}$$

$$x = 40$$

Explanation:

Q17

$$5x - 2(2x - 7) = (3x - 1) + \frac{7}{2}$$

$$5x - 4x + 14 = 3x - 1 + \frac{7}{2}$$

$$x + 14 = 3x - 1 + \frac{7}{2}$$

$$3x - x = 14 + 1 - \frac{7}{2}$$

$$2x = \frac{28 + 2 - 7}{2}$$

$$2x = \frac{30 - 7}{2}$$

$$2x = \frac{23}{2}$$

$$x = \frac{23}{2 \times 2}$$

$$x = \frac{23}{4}$$

$$5x + \frac{7}{2} = \frac{3}{2}x - 14 \quad \text{Q18}$$

By transposing the number and variable both

i.e. taking variables(x) on left hand side and numbers($\frac{7}{2}$ and 14) on right hand side and changing the signs of transposing values

$$5x - \frac{3x}{2} = -14 - \frac{7}{2}$$

L.c.m of both sides

$$(10x - 3x)/2 = (-28 - 7)/2$$

$$7x/2 = -35/2$$

By cancelling 2 both sides

$7x = -35$ (transpose 7 to other side in next step)

$$x = -35/7 \text{ (divide by 7)}$$

$$x = -5.$$

Explanation:

Q19

By transposing numbers and variable both, their sign will change

$$2x - 3 = x + 2$$

$$2x - x = 2 + 3$$

$$x = 5$$