

## Pair of Linear Equations in Two varibles Ex 3.11 Q18 Answer:

Let Rs. x be the notes of Rs. 50 and Rs. 100 notes will be Rs. y

If Meena ask for Rs.50 and Rs.100 notes only, then the equation will be,

$$50x + 100y = 2000$$

Divide both sides by 50 then we get,

$$x + 2y = 40 \cdots (i)$$

If Meena got 25 notes in all then the equation will be,

$$x + y = 25 \cdots (ii)$$

By subtracting the equation (ii) from (i) we get,

$$x + 2y = 40$$

$$-x - y = -25$$

$$1y = 15$$

$$y = \frac{15}{1}$$

$$y = 15$$

Substituting y = 15 in equation (ii), we get

$$x + y = 25$$

$$x + 15 = 25$$

$$x = 25 - 15$$

$$x = 10$$

Therefore x = 10 and y = 15

Hence, Meena has  $\boxed{10}$  notes of Rs. 50 and  $\boxed{15}$  notes of Rs. 100

## Pair of Linear Equations in Two varibles Ex 3.11 Q19 Answer:

Let take right answer will be x and wrong answer will be y .

Hence total number of questions will be  $x + y \cdots (i)$ 

If yash scored 40 marks in atleast getting 3 marks for each right answer and losing 1 mark for each wrong answer then

$$3x-1y=40\cdots(ii)$$

If 4 marks awarded for each right answer and 2 marks deduced for each wrong answer the he scored  $50\ \text{marks}$ 

$$4x - 2y = 50 \cdots (iii)$$

By multiplying equation (i) by 2 we get

$$6x - 2y = 80 \cdots (iv)$$

By subtracting (iii) from (iv) we get

$$6x - 2\sqrt{y} = 80$$

$$-4x + 2y = -50$$

$$2x = 30$$

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

$$x = 15$$

Putting x = 15 in equation (ii) we have

$$3x - 1y = 40$$

$$3 \times 15 - 1y = 40$$

$$45 - 1y = 40$$

$$-1y = 40 - 45$$

$$\neq y = \neq 5$$

Total number question will be

$$= x + y$$

$$=15+5$$

$$= 20$$

Hence, the total number of question is 20.

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