

Exercise 10A

Q6

Answer:

Number of male: Number of female = 5:3

Let the number be x.

Number of male = 5x

Number of female = 3x

Number of male workers = 115

Now,
$$5x = 115$$

$$\Rightarrow x = \underline{115} = 23$$

Number of female workers in the mill = $3x = 3 \times 23 = 69$

Q7

Answer:

Boys:Girls = 9:5

Let the number of boys = 9x

Let the number of girls = 5x

Total strength of the school = 448

According to given condition, we have:

$$9x + 5x = 448$$

$$\Rightarrow 14x = 448$$

$$\Rightarrow x = 448 = 32$$

$$14$$

Number of boys = $9x = 9 \times 32 = 288$ Number of girls = $5x = 5 \times 32 = 160$

Q8

Answer:

Kamal:Madhu = 7:2

Sum of the ratio terms = 7 + 2 = 9

Madhu's share = 2 × 1575 = 3150 = Rs 350

9

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Q9

Answer:

A:B:C = 3:5:7
Sum of the ratio terms =
$$3 + 5 + 7 = 15$$

A's share = $3 \times 3450 = 10350 = 15$

Q10

Answer:

Two number are in the ratio 11:12. Let the numbers be 11x and 12x.

Given:
$$11x + 12x = 460$$

 $\Rightarrow 23x = 460$
 $\Rightarrow x = 460 = 20$

First number = $11x = 11 \times 20 = 220$ Second number = $12x = 12 \times 20 = 240$ Hence, the numbers are 220 and 240.

Q11

Answer:

Ratio of the two parts of line segment = 4:3 Sum of the ratio terms = 4 + 3 = 7First part = 4×35 cm = 4×5 cm = 20 cm 7 Second part = 3×35 cm = 3×5 cm = 15 cm

Q12

Answer:

Number of bulbs produced each day = 630
Out of 10 bulbs, 1 is defective.

Number of defective bulbs = 630 = 63
10

... Number of defective bulbs produced each day = 63

Q13

Answer:

Price of pencil = Rs 96 per score

Price of ball pen = Rs 50.40 per dozen

Price per unit of pencil = 96 = 4.820

Price per unit of ball pen = 50.40 = 4.212

Ratio = $4.8 = 48 = 48 \div 6 = 8$ 4.2

42

42

42

46

7

Price of a pencil:Price of a ball pen = 8:7

********** END *******