



Percentage Ex 11.6 Q13

Answer :

Let Mr. Sidhana's monthly income be x .

Monthly savings = Rs. 840

28% of x = Rs. 840

$$\Rightarrow (28/100) \times x = \text{Rs. } 840$$

$$\Rightarrow 28x = \text{Rs. } 84000$$

$$\Rightarrow x = \text{Rs. } (84000/28) = \text{Rs. } 3000$$

Mr. Sidhana's monthly income = Rs. 3000

Percentage Ex 11.6 Q14

Answer :

Total number of students who appeared for the examination = 1650

Number of students who failed = 8% of 1650

$$= (8/100) \times 1650$$

$$= (8 \times 1650)/100$$

$$= 13200/100 = 132$$

Number of students who passed = $1650 - 132 = 1518$

Percentage of students who passed = $(1518/1650) \times 100 = 0.92 \times 100 = 92$

That is, 92% of the students passed the examination.

Percentage Ex 11.6 Q15

Answer :

Let the total number of candidates be x .

Number of candidates who failed = 46

Number of candidates who passed = 92% of x

According to the given condition,

$$92\% \text{ of } x = x - 46$$

$$\Rightarrow (92/100) x = x - 46$$

$$\Rightarrow 92x = 100x - 4600$$

$$\Rightarrow -8x = -4600$$

$$\Rightarrow x = 4600/8 =$$

Number of candidates who appeared for the examination = 575

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