



Percentage Ex 12.2 Q16

**Answer :**

Let the length of total ride be  $x$  km.

Then, 10% of  $x = 122$

$$\Rightarrow \frac{10}{100} x = 122$$

$$\Rightarrow x = 1220$$

$\therefore$  The length of total ride is 1,220 km.

Percentage Ex 12.2 Q17

**Answer :**

$$\begin{aligned}\text{Total number of female student } s &= 300 - 142 \\ &= 158\end{aligned}$$

$$\begin{aligned}\text{Total number of female teachers} &= 30 - 12 \\ &= 18\end{aligned}$$

$$\begin{aligned}\text{Total number of females} &= 158 + 18 \\ &= 176\end{aligned}$$

$$\begin{aligned}\text{Total population of the school} &= 300 + 30 \\ &= 330\end{aligned}$$

$$\begin{aligned}\text{Percentage of females} &= \frac{176}{330} \times 100 \\ &= \frac{160}{3} \% \text{ or } 53.33\%\end{aligned}$$

Percentage Ex 12.2 Q18

**Answer :**

Let Anil's income be  $x$ .

$$\begin{aligned}\text{Then, Aman's income} &= x - \frac{20x}{100} \\ &= \frac{8x}{10}\end{aligned}$$

$$\begin{aligned}\text{Difference in the incomes of Anil and Aman} &= x - \frac{8x}{10} \\ &= \frac{2x}{10}\end{aligned}$$

$\therefore$  Percentage of the difference in the incomes of Anil and Aman to that of

$$\begin{aligned}\text{Aman's income} &= \left(\frac{2x}{10}\right) / \left(\frac{8x}{10}\right) \times 100 \\ &= \frac{1}{4} \times 100 \\ &= 25\%\end{aligned}$$

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