



Exercise 2C

Distance covered by Vikas in $7\frac{3}{4}$ h = $20\frac{2}{3}$ km

$$\begin{aligned}\therefore \text{Distance covered by him in 1 h} &= \left(20\frac{2}{3} \div 7\frac{3}{4}\right) \text{ km} \\ &= \left(\frac{62}{3} \div \frac{31}{4}\right) \text{ km} \\ &= \left(\frac{62}{3} \times \frac{4}{31}\right) \text{ km} \\ &= \left(\frac{2 \times 4}{3}\right) \text{ km} = \left(\frac{8}{3}\right) \text{ km} = 2\frac{2}{3} \text{ km}\end{aligned}$$

Hence, the distance covered by Vikas in 1 h is $2\frac{2}{3}$ km.

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Answer :

Cost of $8\frac{1}{2}$ kg of sugar = Rs $148\frac{3}{4}$

$$\begin{aligned}\therefore \text{Cost of 1 kg of sugar} &= \text{Rs} \left(148\frac{3}{4} \div 8\frac{1}{2}\right) \\ &= \text{Rs} \left(\frac{595}{4} \div \frac{17}{2}\right) \\ &= \text{Rs} \left(\frac{595}{4} \times \frac{2}{17}\right) = \text{Rs} \left(\frac{35}{2}\right) = \text{Rs} 17\frac{1}{2}\end{aligned}$$

Hence, the cost of 1 kg of sugar is Rs $17\frac{1}{2}$.

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Answer :

Cost of 1 notebook = Rs $7\frac{3}{4}$ = Rs $\frac{31}{4}$

$$\begin{aligned}
 \therefore \text{Number of notebooks purchased for Rs } 69\frac{3}{4} &= \left(69\frac{3}{4} \div \frac{31}{4}\right) \\
 &= \left(\frac{279}{4} \div \frac{31}{4}\right) \\
 &= \left(\frac{279}{4} \times \frac{4}{31}\right) \quad [\because \text{Reciprocal of } \frac{31}{4} = \frac{4}{31}] \\
 &= \left(\frac{279}{31}\right) = 9
 \end{aligned}$$

Hence, 9 notebooks can be purchased for Rs $69\frac{3}{4}$.

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Answer :

$$\text{Cost of 1 ticket} = \text{Rs } 10\frac{1}{2} = \text{Rs } \frac{21}{2}$$

$$\text{Total amount collected by the boy} = \text{Rs } 283\frac{1}{2} = \text{Rs } \frac{567}{2}$$

$$\therefore \text{Number of tickets sold} = \left(\frac{567}{2} \div \frac{21}{2}\right)$$

$$= \left(\frac{567}{2} \times \frac{2}{21}\right) \quad [\because \text{Reciprocal of } \frac{21}{2} = \frac{2}{21}]$$

$$= \frac{567}{21} = 27$$

Hence, the boy sold 27 tickets of the charity show.

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Answer :

$$\text{Amount contributed by 1 student} = \text{Rs } 61\frac{1}{2} = \text{Rs } \frac{123}{2}$$

$$\text{Total amount collected} = \text{Rs } 676\frac{1}{2} = \text{Rs } \frac{1353}{2}$$

$$\therefore \text{Number of students in the group} = \left(\frac{1353}{2} \div \frac{123}{2}\right)$$

***** END *****