

Exercise 2C

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

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

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  $\frac{31}{4}$ 

$$\therefore \text{ Number of notebooks purchased for Rs } 69\,\frac{3}{4} = \left(69\,\frac{3}{4}\,\div\,\frac{31}{4}\right)$$
 
$$= \left(\frac{279}{4}\,\div\,\frac{31}{4}\right)$$
 
$$= \left(\frac{279}{4}\,\times\,\frac{4}{31}\right) \quad [\because \text{Reciprocal of } \frac{31}{4} = \frac{4}{13}]$$
 
$$= \left(\frac{279}{31}\right) = 9$$

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

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## Answer:

Cost of 1 ticket = Rs 
$$10\frac{1}{2}$$
 = Rs  $\frac{21}{2}$ 
Total amount collected by the boy = Rs  $283\frac{1}{2}$  = 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:

Amount contributed by 1 student = Rs  $61\frac{1}{2}$  = Rs  $\frac{123}{2}$ Total amount collected = Rs  $676\frac{1}{2}$  = Rs  $\frac{1353}{2}$   $\therefore$  Number of students in the group =  $\left(\frac{1353}{2} \div \frac{123}{2}\right)$ 

\*\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*\*