



Exercise 2C

$$= \left(\frac{1353}{2} \times \frac{2}{123} \right) \quad [\because \text{Reciprocal of } \frac{123}{2} = \frac{2}{123}]$$

$$= \left(\frac{1353}{123} \right) = 11$$

Hence, there are 11 students in the group.

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Answer :

Quantity of milk given to each student = $\frac{2}{5}$ L

Total quantity of milk distributed among all the students = 24 L

$$\therefore \text{Number of students} = \left(24 \div \frac{2}{5} \right)$$

$$= \left(24 \times \frac{5}{2} \right) \quad [\because \text{Reciprocal of } \frac{2}{5} = \frac{5}{2}]$$

$$= (12 \times 5) = 60$$

Hence, there are 60 students in the hostel.

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Answer :

Capacity of the small jug = $\frac{3}{4}$ L

Capacity of the bucket = $20\frac{1}{4}$ L = $\frac{81}{4}$ L

$$\therefore \text{Required number of small jugs} = \left(\frac{81}{4} \div \frac{3}{4} \right)$$

$$= \left(\frac{81}{4} \times \frac{4}{3} \right) \quad [\because \text{Reciprocal of } \frac{3}{4} = \frac{4}{3}]$$

$$= \left(\frac{81}{3} \right) = 27$$

Hence, the small jug has to be filled 27 times to empty the water from the bucket.

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Answer :

Product of the two numbers = $15\frac{5}{6} = \frac{95}{6}$

One of the numbers = $6\frac{1}{3} = \frac{19}{3}$

$$\begin{aligned}\therefore \text{The other number} &= \left(\frac{95}{6} \div \frac{19}{3} \right) \\ &= \left(\frac{95}{6} \times \frac{3}{19} \right) \quad [\because \text{Reciprocal of } \frac{19}{3} = \frac{3}{19}] \\ &= \left(\frac{5}{2} \right) = 2\frac{1}{2}\end{aligned}$$

Hence, the other number is $2\frac{1}{2}$.

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Answer :

Product of the two numbers = 42

One of the numbers = $9\frac{4}{5} = \frac{49}{5}$

$$\begin{aligned}\therefore \text{The other number} &= \left(42 \div \frac{49}{5} \right) \\ &= \left(42 \times \frac{5}{49} \right) \quad [\because \text{Reciprocal of } \frac{49}{5} = \frac{5}{49}] \\ &= \left(\frac{6 \times 5}{7} \right) = \frac{30}{7} = 4\frac{2}{7}\end{aligned}$$

Hence, the required number is $4\frac{2}{7}$.

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