



Exercise 3D

$$\therefore \text{Number of shirts that can be made from 45 m of cloth} = \frac{45}{1.8} = \frac{15}{0.6} = \frac{5}{0.2} = \frac{50}{2} = 25$$

Hence, 25 shirts can be made from a piece of cloth of length 45 m.

Q10

Answer :

Distance covered by the car with 2.4 litres of petrol = 22.8 km

$$\begin{aligned}\therefore \text{Distance covered with 1 litre of petrol} &= \left(\frac{22.8}{2.4}\right) \text{ km} \\ &= \left(\frac{228}{24}\right) \text{ km} = \left(\frac{228 \div 12}{24 \div 12}\right) \text{ km} = \left(\frac{19}{2}\right) \text{ km} = 9\frac{1}{2} \text{ km}\end{aligned}$$

Hence, the distance covered by the car with 1 litre of petrol is $9\frac{1}{2}$ km.

Q11

Answer :

Capacity of 1 tin of oil = 16.5 litres

$$\therefore \text{Number of tins required to hold 478.5 litres of oil} = \left(\frac{478.5}{16.5}\right) = \left(\frac{4785}{165}\right) = \left(\frac{4785 \div 15}{165 \div 15}\right) = \frac{319}{11} = 29$$

Hence, 29 oil tins will be required to hold 478.5 litres of oil.

Q12

Answer :

Weight of 37 bags of sugar = 3644.5 kg

∴ Weight of 1 bag of sugar = $\left(\frac{3644.5}{37}\right) = 98.5$ kg

$$\begin{array}{r} 37 \overline{) 3644.5} \quad 98.5 \\ \underline{-333} \\ 314 \\ \underline{-296} \\ 185 \\ \underline{-185} \\ \times \end{array}$$

Hence, each bag of sugar weighs 98.5 kg.

Q13

Answer :

Capacity of 69 buckets of water = 586.5 litres

∴ Capacity of one such bucket = $\left(\frac{586.5}{69}\right)$ litres = 8.5 litres.

$$\begin{array}{r} 69 \overline{) 586.5} \quad 8.5 \\ \underline{-552} \\ 345 \\ \underline{-345} \\ \times \end{array}$$

Hence, the capacity of each water bucket is 8.5 litres.

Q14

Answer :

Length of one piece of cloth = 1.15 m

∴ Number of pieces she gets from 46 m of cloth = $\left(\frac{46}{1.15}\right)$

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