Knowing Our Numbers Ex 1.3 Q10

Answer :

∵ Total length of available cloth = 40 m = 4,000 cm (1 m = 100 cm)
∵ Length of cloth required to stitch a shirt = 215 cm = 200 + 15 = 215 cm
∴ The number of shirts that can be stitched from the 40-metre cloth = 4,000/215 = 18.60
As the number of shirts has to be a whole number, we consider the whole part only. That is, 18 such shirts can be stitched.

∴ Cloth required for stitching 18 shirts = 215 × 18 = 3870 cm
∴ Remaining cloth = 4,000 − 3870 = 130 cm = 1.3 m

Knowing Our Numbers Ex 1.3 Q11

Answer :

Number of glasses in which curd can be distributed = Total amount of curd/Capacity of each glass.
Total amount of curd in the vessel = 4,650 mL = 4,000 + 650 = 4,650 mL (1 L = 1,000 mL)
Capacity of each glass = 25 mL
∴ Number of glasses in which curd can be distributed = 4,650/25 = 186

Knowing Our Numbers Ex 1.3 Q12

Answer :

∵ Total capacity of a van carrying boxes of medicines = 800 kg = 8,00,000 g (1 kg = 1,000 g)
∵ Weight of each packed box = 4,500 g = 4,000 + 500 = 4,500 g
∴ Total number of boxes that can be loaded in the van = 8,00,000/4,500 = 177.77

The obtained number of boxes is not a whole number.
∴ Weight of 177 boxes = 177 × 4,500 = 7,96,500 g (under permissible limit)
∴ Weight of 178 boxes = 178 × 4,500 = 8,01,000 g (beyond permissible limit)
Therefore, we can't load 178 boxes; hence, we can say that 177 boxes can be loaded in the van.

Knowing Our Numbers Ex 1.3 Q13

Answer :

∵ Distance between the school and the house of a student = 1,875 m = 1,000 + 875 = 1,875 m (1 km = 1,000 m)
∵ Distance covered by a student in a day = 2 × 1,875 = 3,750 m
∴ Total distance covered by her in a week = 7 × 3,750 = 26,250 m = 26.25 km

********** END **********