



### 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 =  $215 \times 18 = 3870$  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 =  $177 \times 4,500 = 7,96,500$  g (under permissible limit)  
∴ Weight of 178 boxes =  $178 \times 4,500 = 8,01,000$  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 =  $2 \times 1,875 = 3,750$  m  
∴ Total distance covered by her in a week =  $7 \times 3,750 = 26,250$  m = 26.25 km

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