

**Exercise (Do yourself)**

- a) Raju's height is 1.35 m and his brother's height is 9.6 dm. How much is the difference in their height? Write it in centimeter.
- b) A tailor has 375 decimetres of cotton cloth and wants to make 15 shirts from it. How many centimetres can he use for one shirt?
- c) Reza walks 45 metres in a minutes, and Mina walks 80 centimetres in a second. Who can walk faster?

**Solution:**

a) Raju's height = 1.35 m

$$= (1.35 \times 100) \text{ cm } [ \because 1 \text{ m} = 100 \text{ cm} ]$$

$$= 135 \text{ cm}$$

His brother's height = 9.6 dm

$$= (9.6 \times 10) \text{ cm } [ \because 1 \text{ dm} = 10 \text{ cm} ]$$

$$= 96 \text{ cm}$$

$$\begin{aligned}\therefore \text{Difference} &= (135 - 96) \text{ cm} \\ &= 39\text{cm}\end{aligned}$$

Ans: 39cm.

b) Total quantity of cloth = 375 dm

$$\begin{aligned}&= (375 \times 10) \text{ cm } [\because 1 \text{ dm} = 10 \text{ cm}] \\ &= 3750\text{cm}\end{aligned}$$

Number of shirt to be made = 15

$$\begin{aligned}\therefore \text{Amount of cloth can be used for each shirt} &= (3750 \div 15)\text{cm} \\ &= 250\text{cm}\end{aligned}$$

Ans: 250cm.

c) In a minute, Reza walks = 45m

In a second, Mina walks = 80cm

$$\begin{aligned}\therefore \text{In a minute, Mina walks} &= (80 \times 60)\text{cm } [\because 1 \text{ minute} = 60 \text{ seconds}] \\ &= 4800\text{cm} \\ &= (4800 \div 100)\text{m } [\because 1\text{cm} = \frac{1}{100} \text{ m}] \\ &= 48\text{m}\end{aligned}$$

Since  $48 > 45$ , hence Mina walks fast.

Ans: Mina walks fast.

