

MOUNT LITERA ZEE SCHOOL
GRADE -6
SUBJECT-MATHEMATICS
ASSIGNMENT-MENSURATION

Date-21.11.20

Q1. Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of ₹ 12 per metre.

Solutions:

$$\text{Length} = 175 \text{ m}$$

$$\text{Breadth} = 125 \text{ m}$$

$$\text{Perimeter of rectangular park} = 2 (\text{Length} + \text{Breadth})$$

$$= 2 (175 + 125)$$

$$= 2 (300)$$

$$= 2 \times 300 = 600 \text{ m}$$

$$\text{Cost of fencing} = 12 \times 600 = 7200$$

∴ Cost of fencing is ₹ 7,200

Q2. Sweety runs around a square park of side 75 m. Bulbul runs around a rectangular park with length 60 m and breadth 45 m. Who covers less distance?

Solutions:

$$\text{Perimeter of square} = 4 \times \text{side}$$

$$= 4 \times 75 = 300 \text{ m}$$

∴ Distance covered by Sweety is 300 m

$$\text{Perimeter of rectangular park} = 2 (\text{Length} + \text{Breadth})$$

$$= 2 (60 + 45)$$

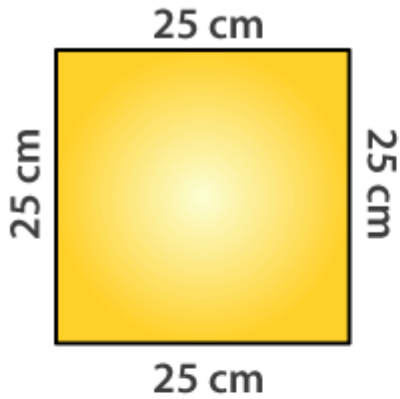
$$= 2 (105)$$

$$= 2 \times 105 = 210 \text{ m}$$

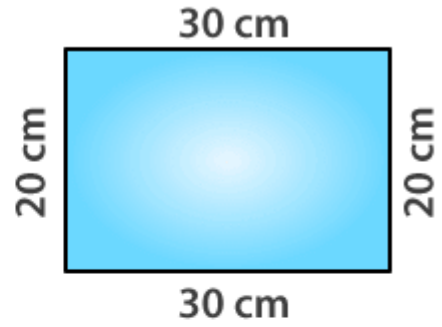
∴ Distance covered by Bulbul is 210 m

Hence, Bulbul covers less distance than Sweety.

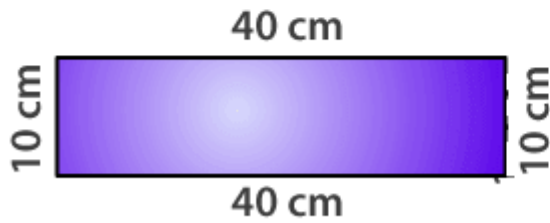
Q3. What is the perimeter of each of the each of the following figures? What do you infer from the the answers?



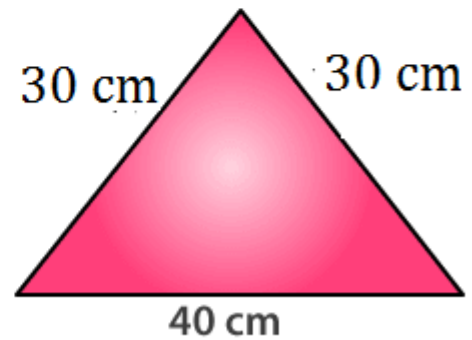
(a)



(c)



(b)



(d)

Solutions:

(a) Perimeter of square = $4 \times \text{side}$

$$= 4 \times 25 = 100 \text{ cm}$$

(b) Perimeter of rectangle = $2 (40 + 10)$

$$= 2 \times 50 = 100 \text{ cm}$$

(c) Perimeter of rectangle = $2 (\text{Length} + \text{Breadth})$

$$= 2 (30 + 20)$$

$$= 2 (50)$$

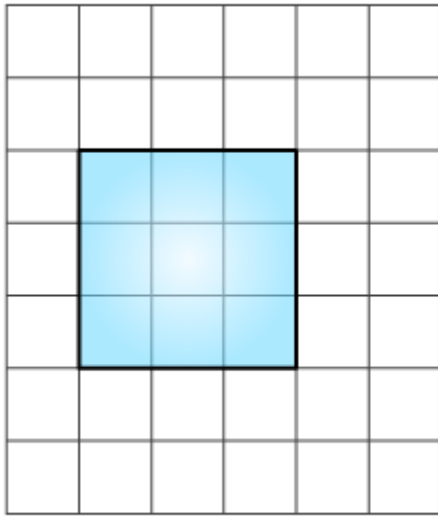
$$= 2 \times 50 = 100 \text{ cm}$$

(d) Perimeter of triangle = $30 + 30 + 40 = 100 \text{ cm}$

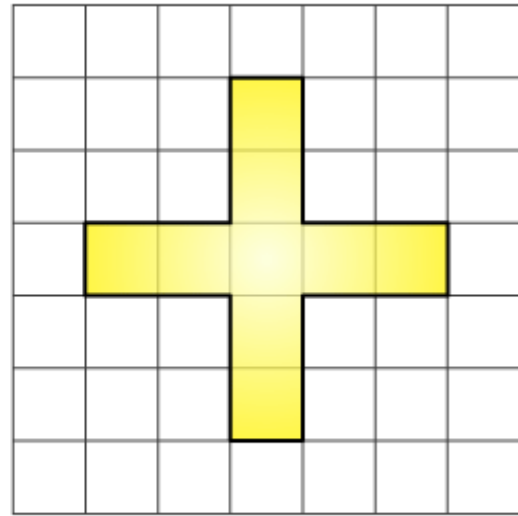
All the figures have same perimeter.

Q4. Avneet buys 9 square paving slabs, each with a side of $1/2$ m. He lays them in the form of a square.

(a) What is the perimeter of his arrangement [fig 10.7(i)]?



(i)



(ii)

(b) Shari does not like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement [(Fig 10.7 (ii))]?

(c) Which has greater perimeter?

Solutions:

(a) Side of square = 3 × side

$$= 3 \times 1 / 2$$

$$= 3 / 2 \text{ m}$$

Perimeter of Square = 4 × 3 / 2

$$= 2 \times 3 = 6 \text{ m}$$

(b) Perimeter = 0.5 + 1 + 1 + 0.5 + 1 + 1 + 0.5 + 1 + 1 + 0.5 + 1 + 1 = 10 m

(c) The arrangement in the form of cross has greater perimeter