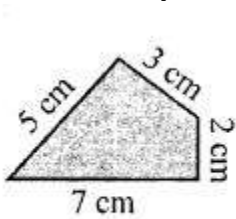
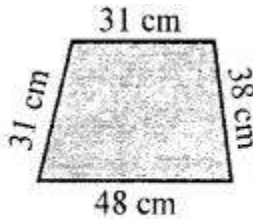


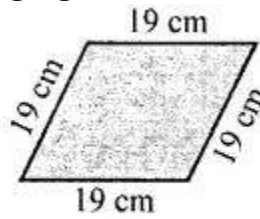
1. Find the perimeter of each of the following figures:



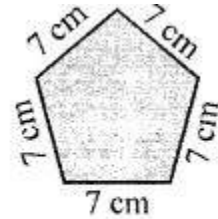
(i)



(ii)



(iii)



(iv)

**Solution:-**

We know that Perimeter = sum of all sides

So,

(i) From the figure,

$$\begin{aligned} \text{Perimeter} &= 7 \text{ cm} + 5 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} \\ &= 17 \text{ cm} \end{aligned}$$

(ii) From the figure,

$$\begin{aligned} \text{Perimeter} &= 48 \text{ cm} + 38 \text{ cm} + 31 \text{ cm} + 31 \text{ cm} \\ &= 148 \text{ cm} \end{aligned}$$

(iii) From the figure,

$$\begin{aligned} \text{Perimeter} &= 19 \text{ cm} + 19 \text{ cm} + 19 \text{ cm} + 19 \text{ cm} \\ &= 76 \text{ cm} \end{aligned}$$

(iv) From the figure,

$$\begin{aligned} \text{Perimeter} &= 7 \text{ cm} + 7 \text{ cm} + 7 \text{ cm} + 7 \text{ cm} + 7 \\ &= 35 \text{ cm} \end{aligned}$$

2. Find the perimeter of each of the following shapes:

(i) A triangle of sides 3 cm, 4 cm and 6 cm.

**Solution:-**

We know that Perimeter = sum of all sides

From the question it is given that, triangle of sides 3 cm, 4 cm and 6 cm.

$$\begin{aligned} \text{So, Perimeter} &= 3 \text{ cm} + 4 \text{ cm} + 6 \text{ cm} \\ &= 13 \text{ cm} \end{aligned}$$

(ii) A triangle of sides 7 cm, 5.4 cm and 10.2 cm.

**Solution:-**

We know that Perimeter = sum of all sides

From the question it is given that, triangle of sides 7 cm, 5.4 cm and 10.2 cm.

$$\begin{aligned} \text{So, Perimeter} &= 7 \text{ cm} + 5.4 \text{ cm} + 10.2 \text{ cm} \\ &= 22.6 \text{ cm} \end{aligned}$$

**(iii) An equilateral triangle of side 11 cm.**

**Solution:-**

We know that Perimeter = sum of all sides

From the question it is given that, An equilateral triangle of side 11 cm.

In an equilateral triangle three sides are equal.

$$\begin{aligned}\text{So, Perimeter} &= 11 \text{ cm} + 11 \text{ cm} + 11 \text{ cm} \\ &= 33 \text{ cm}\end{aligned}$$

**(iv) An isosceles triangle with equal sides 10 cm each and third side 7 cm.**

**Solution:-**

We know that Perimeter = sum of all sides

From the question it is given that, isosceles triangle with equal sides 10 cm each and third side 7 cm.

In an isosceles triangle two sides are equal.

$$\begin{aligned}\text{So, Perimeter} &= 10 \text{ cm} + 10 \text{ cm} + 7 \text{ cm} \\ &= 27 \text{ cm}\end{aligned}$$

**3. The lid of a rectangular box of sides 40 cm by 10 cm is sealed all round with tape. What is the length of the tape required?**

**Solution:-**

From the question it is given that,

Sides of rectangular box, length = 40 cm and breadth = 10 cm

We have to find, length of the tape required

$$\begin{aligned}\text{We know that, Perimeter of the rectangular box} &= 2 \times (\text{Length} + \text{Breadth}) \\ &= 2 \times (40 \text{ cm} + 10 \text{ cm}) \\ &= 2 \times (50 \text{ cm}) \\ &= 100 \text{ cm} \\ &= 1 \text{ meter} \quad [1 \text{ meter} = 100 \text{ cm}]\end{aligned}$$

Therefore, length of the tape required is 100 cm or 1 m.

**4. Table-Top measures 2 m 25 cm by 1 m 50 cm. What is the perimeter of the table-top?**

**Solution:-**

From the question it is given that,

Length of table – top = 2 m 25 cm

We know that, 1 meter = 100 cm

$$\begin{aligned} &= 2 \text{ m} + (25/100) \text{ m} \\ &= 2 \text{ m} + 0.25 \\ &= 2.25 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{Breadth of table – top} &= 1 \text{ m } 50 \text{ cm} \\ &= 1 \text{ m} + 50/100 \\ &= 1 \text{ m} + 0.5 \text{ m} \\ &= 1.5 \text{ m} \end{aligned}$$

We have to find, perimeter of table – top.

$$\begin{aligned} \text{We know that, Perimeter of the table - top} &= 2 \times (\text{Length} + \text{Breadth}) \\ &= 2 \times (2.25 \text{ m} + 1.50 \text{ m}) \\ &= 2 \times (3.75 \text{ m}) \\ &= 7.5 \text{ m} \end{aligned}$$

Therefore, the perimeter of table – top is 7.5 m.

**5. A rectangular piece of land measures 0.7 km by 0.5 km. Each side is to be fenced with 4 rows of wires. What is the length of the wire needed?**

**Solution:-**

From the question it is given that,

Length of rectangular piece of land = 0.7 km

Breadth of rectangular piece of land = 0.5 km

$$\begin{aligned} \text{We know that, Perimeter of the table - top} &= 2 \times (\text{Length} + \text{Breadth}) \\ &= 2 \times (0.7 \text{ km} + 0.5 \text{ km}) \\ &= 2 \times (1.2 \text{ km}) \\ &= 2.4 \text{ km} \end{aligned}$$

Now, we have to find the length of the wire needed for fencing the each side of rectangular piece by 4 rows

So,

$$\begin{aligned} &= 4 \times \text{Perimeter of the rectangle} \\ &= 4 \times (2.4 \text{ km}) \\ &= 9.6 \text{ km} \end{aligned}$$

Therefore, the length of the wire needed is 9.6 km.

**6. Find the perimeter of a regular hexagon with each side measuring 7.5 m.**

**Solution:**

We know that hexagon has 6 sides,

From the question it is given that, a regular hexagon with each side measuring 7.5 m

Then, Perimeter of a regular hexagon = 6 × Length of a side

$$= 6 \times 7.5 \text{ m}$$

$$= 45 \text{ m}$$

Therefore, perimeter of regular hexagon is 45 m.

