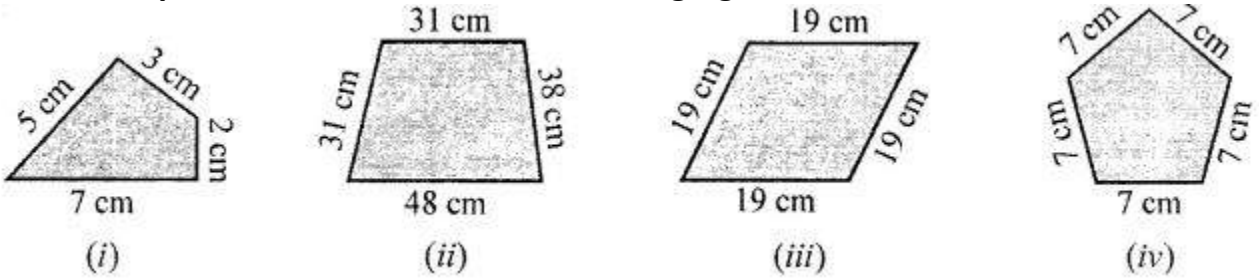
1. Find the perimeter of each of the following figures:



Solution:-

We know that Perimeter = sum of all sides

So,

(i) From the figure,

Perimeter = 7 cm + 5 cm + 3 cm + 2 cm

= 17 cm

(ii) From the figure,

Perimeter = 48 cm + 38 cm + 31 cm + 31 cm

= 148 cm

(iii) From the figure,

Perimeter = 19 cm + 19 cm + 19 cm + 19 cm

= 76 cm

(iv) From the figure,

Perimeter = 7 cm + 7 cm + 7 cm + 7 cm + 7

= 35 cm

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.

So, Perimeter = 3 cm + 4 cm + 6 cm

= 13 cm

(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.

So, Perimeter = 7 cm + 5.4 cm + 10.2 cm

= 22.6 cm

(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.
So, Perimeter = 11 cm + 11 cm + 11 cm
= 33 cm

(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.
So, Perimeter = 10 cm + 10 cm + 7 cm
= 27 cm

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
We know that, Perimeter of the rectangular box = 2 × (Length + Breadth)
= 2 × (40 cm + 10 cm)
= 2 × (50 cm)
= 100 cm
= 1 meter [1 meter = 100 cm]
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

= 2 m + (25/100) m
= 2 m + 0.25
= 2.25 m

Breadth of table – top = 1 m 50 cm
= 1 m + 50/100
= 1 m + 0.5 m
= 1.5 m

We have to find, perimeter of table – top.

We know that, Perimeter of the table - top = 2 × (Length + Breadth)
= 2 × (2.25 m + 1.50 m)
= 2 × (3.75 m)
= 7.5 m

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

We know that, Perimeter of the table - top = 2 × (Length + Breadth)
= 2 × (0.7 km + 0.5 km)
= 2 × (1.2 km)
= 2.4 km

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

So,

= 4 × Perimeter of the rectangle
= 4 × (2.4 km)
= 9.6 km

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 × 7.5 m
= 45 m

Therefore, perimeter of regular hexagon is 45 m.