

Chapter - 14

1. Regular shape \Rightarrow It is that all the sides are equal and all the inside angles are equal.
2. Irregular shape \Rightarrow It doesn't have equal sides and equal angles.

Regular Shapes

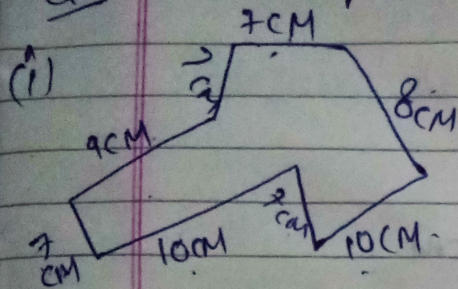
3. Perimeter of regular shapes \Rightarrow Number of sides \times measurement of a side.
4. Perimeter of Rectangle $\Rightarrow 2(\text{length} + \text{width/height/})$
Breadth

Day 17 Nov 2020

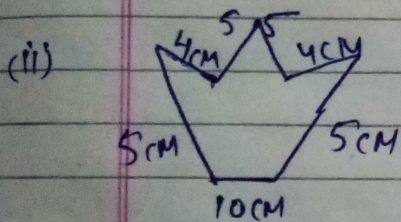
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Perimeter & Area

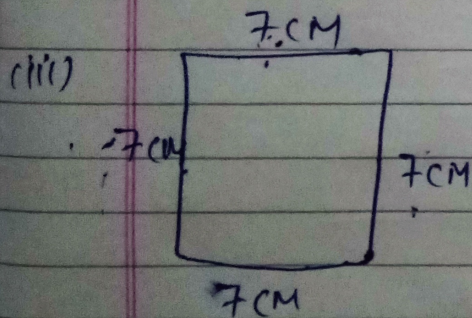
Q1 Find the perimeter of given figures:-



Perimeter of shape =
 $\Rightarrow 7 + 9 + 7 + 10 + 2 + 10 + 8 + 7 + 7$
 $\Rightarrow 65 \text{ cm.}$



Perimeter of shape =
 $\Rightarrow 4 + 5 + 5 + 4 + 5 + 10 + 5$
 $\Rightarrow 38 \text{ cm}$



Perimeter of shape
 $\Rightarrow \text{No. of sides} \times \text{Measurement of a side}$
 $\Rightarrow 4 \times 7$
 $\Rightarrow 28 \text{ cm.}$

Q2. Find the perimeter of the following rectangle shapes.

(A) Length = 30 cm
Breadth = 48 cm

Ans $2 \times (L + B)$
 $\Rightarrow 2 \times (30 + 48)$
 $\Rightarrow 2 \times 78$
 $\Rightarrow 156 \text{ cm.}$

(B) Length = 20 cm, Breadth = 34 cm.

Sol

$$2 \times (L + B)$$
$$\Rightarrow 2 \times (20 + 34)$$
$$= 2 \times 54$$
$$= 108 \text{ cm.}$$

(C) Length = 60 cm, Breadth = 20 cm

Sol

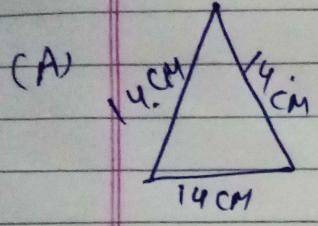
$$2 \times (L + B)$$
$$= 2 \times (60 + 20)$$
$$2 \times 80 = 160 \text{ cm.}$$

(d) Length = 30 cm.
Breadth = 12 cm

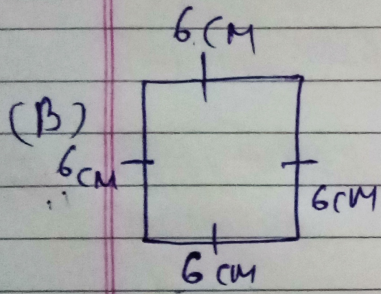
Sol

$$2 \times (L + B)$$
$$= 2 \times (30 + 12)$$
$$= 2 \times 42$$
$$= 84 \text{ cm.}$$

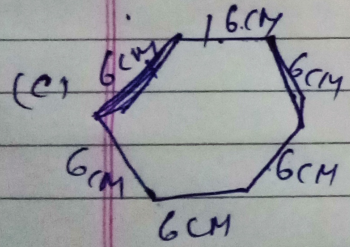
Q3. Find the perimeter of given regular shapes with the help of formula.



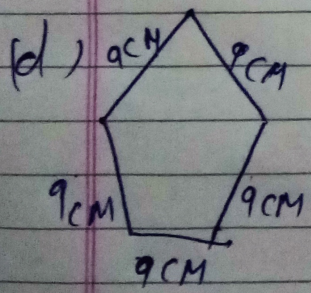
⇒ Perimeter of regular shape
⇒ No. of sides × measurement of a side
⇒ $3 \times 14 = 42 \text{ cm}$.



⇒ Perimeter of regular shape
⇒ No. of sides × measurement of a side
⇒ $4 \times 6 = 24 \text{ cm}$.



Perimeter of regular shape
⇒ No. of side × measurement of a side
⇒ $6 \times 6 = 36 \text{ cm}$.



⇒ Perimeter of regular shape
⇒ No. of side × measurement of a side
⇒ $5 \times 9 = 45 \text{ cm}$.

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Q4. Vijay has _____

Same.

Sol. Perimeter of a rectangle made by Vijay = $2 \times (L+B)$
= $2 \times (5+3)$
 $\Rightarrow 2 \times 8 = 16 \text{ cm.}$

Area of rectangle made by Vijay \Rightarrow Length \times Width.
 $\Rightarrow 5 \times 3$
 $\Rightarrow 15 \text{ sq. cm.}$

If length of this rectangle is decreased by 1 cm, and breadth increased by 1 cm, then its measurement become.

Perimeter of rectangle = $2 \times (L+B)$
 $\Rightarrow 2 \times (4+4)$
 $\Rightarrow 2 \times 8 = 16 \text{ cm.}$

Area of rectangle $\Rightarrow L \times B$
 $\Rightarrow 4 \times 4 = 16 \text{ sq. cm.}$

Q5. Find the area _____ respectively.

Sol. Length = 25m, Breadth = 30m.

Area of rectangular field = $L \times B$

$\Rightarrow 25 \times 30$

$\Rightarrow 750 \text{ sq. meters.}$

+/-
-/+
x/÷
÷/x

Q6. Perimeter of rectangle shape towel = 2 x (L+B)
Ans A rectangle towel
Length = 125 cm, Breadth = 60 cm.
Perimeter of rectangle shape towel = $2 \times (L+B)$
 $\Rightarrow 2 \times (125+60)$
 $\Rightarrow 2 \times 185$
 $\Rightarrow 370 \text{ cm.}$

Q7. Perimeter of square = 4 x Side
Ans A Fencing
 $260 = 4 \times \text{Side}$
 $4 \times \text{side} = 260$
 $\text{Side} = \frac{260}{4}$
 $\text{Side} = 65 \text{ meter.}$

Q8. Area of floor/Carpet = L x B
Ans Length carpet.
Length of floor = 8 m.
Breadth of floor = 7 m.
Area of floor/Carpet = $L \times B$
 $\Rightarrow 8 \times 7 \Rightarrow 56 \text{ meter Sq. meter.}$

Q9. Perimeter of a square = 4 x side
Ans Find 60 cm.
 $\text{Side} = 60 \text{ cm.}$
Perimeter of a square = $4 \times \text{side}$
 $= 4 \times 60$
 $\Rightarrow 240 \text{ cm.}$

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Q10. To complete _____ field.

Sol. Distance walked in 2 round = 40 meter
Distance walked in 1 round = $\frac{40}{2} = 20$ meter.

Distance walked in 1 round is called Perimeter.
Perimeter of Square field = 20 meter.

$4 \times \text{side} = 20 \text{ meter}$
 $\text{side} = \frac{20}{4} = 5 \text{ meter.}$

Q11. Find the area _____ 3.5 meter.

Length = 2.5 m.

Breadth = 3.5 m.

①

2.5
+ 3.5

6.0

Perimeter of rectangle field $\Rightarrow 2 \times (L+B)$
 $\Rightarrow 2 \times (2.5 + 3.5)$
 $\Rightarrow 2 \times 6 \Rightarrow 12 \text{ meter.}$

Area of rectangle field = $L \times B$

$\Rightarrow 2.5 \times 3.5$

$\Rightarrow 8.75 \text{ sq. meter}$

(2) $\begin{array}{r} 2.5 \\ \times 3.5 \\ \hline 125 \\ 750 \\ \hline 8.75 \end{array}$

Q12. Find the ~~side~~ side _____ 81 meter

Sol. Area of Square = 81 meter

side \times side = 81 meter

(side)² = 81 meter

side = $\sqrt{81}$

side = 9

~~side x side =~~
Q13. Find the area _____ 1.5 meter.

Sol. Side of a square = 1.5 meter.
Area of square = side x side
 $\Rightarrow 1.5 \times 1.5$
 $\Rightarrow 2.25$ sq. meter.

Q14. Find the perimeter _____ 60 meter.

Sol. Distance walked in 2 round = 60 meter,
Distance walked in 1 round = $\frac{60}{2} = 30$ meter

Distance walked in 1 round is called Perimeter.

Perimeter of square = 30 meter

$4 \times \text{side} = 30$ meter.

$\text{side} = \frac{30}{4} = 7.5$ meter

Area of square = side x side

$\Rightarrow 7.5 \times 7.5$

$\Rightarrow 56.25$ sq. meter.

Perimeter of square $\Rightarrow 30$ meter

Area of square $\Rightarrow 56.25$ sq. meter.