# Worksheet Ch-14

## Perimeter and Area

Date
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(A) Fill in the blanks.

① The length of the boundary of a closed figure is called its perimeter

② A square is a figure in which all the sides are equal.

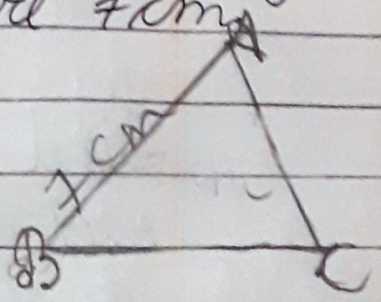
③ Rectangle is a closed figure having equal opposite sides.

④ Perimeter of a square = 4 × length of one side.

⑤ The surface enclosed by a 2D or plane figure is known as its Area.

⑤ Do as directed

⑥ Find the perimeter of a triangle in which all sides are 7 cm




Ans: Side = 7 cm

Perimeter = $\overline{AB} + \overline{BC} + \overline{CA}$

= 7 + 7 + 7

= 3 × 7

= 21 cm

⑦

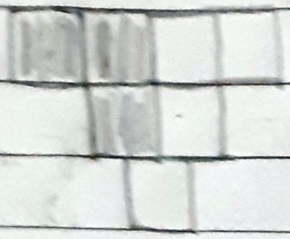
Find the area of the above figure if each square of 1 sq cm.

Ans: The area of a square = 1 sq cm

Total squares in the figure = 16

The area of the 16 squares = 16 × 1 = 16 sq cm

⑧



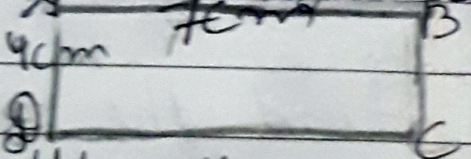
Find the area of the shaded region if each square has an area of 1 sq. cm.

Ans: The area of a square = 1 sq cm

Total shaded squares in the figure = 3

The area of the 3 squares = $3 \times 1 = 3$ sq cm

⑨ Find the perimeter of the rectangle whose lengths is 7 cm and breadth is 4 cm.




Ans:- Length = 7 cm, Breadth = 4 cm

Perimeter = 2 × (length + breadth)

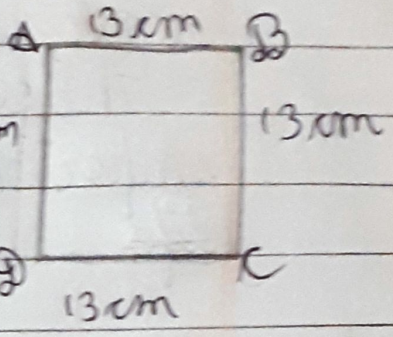
= 2 × (7 + 4)

= 2 × 11

= 22 cm

① Find the perimeter of the square whose side is 13cm.

Sol: Side = 13 cm




Perimeter = 4 × length of one side

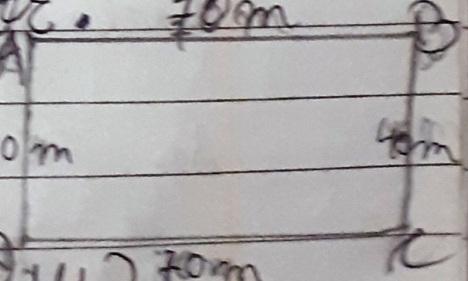
= 4 × 13

= 52 cm

So, Perimeter of the square is 52cm.

② Solve the following questions.

① The length of a floor is 70m and its breadth is 40cm. Find the perimeter of the floor.




Ans: Length = 70m, breadth = 40m

Perimeter = 2 × (length + breadth)

= 2 × (70 + 40)

= 2 × 110

= 220m

So, Perimeter of the floor is 220m.

Q A square shaped garden is of length 75m. How much wire will be required for fencing around it thrice? Also write the importance of plant in our life.

Ans: It is a squared shaped garden
So perimeter of square garden =

Length of one side 75 m

Perimeter = 4 x (length of one side)

= 4 x 75
= 300 m

Wire required for fencing it thrice =
= 300 x 3 = 900 m

So, 900m Wire required for fencing it thrice.

Importance of plant in our life:

① Plants take carbon dioxide and release oxygen from their leaves

to the atmosphere, which humans and other animal ~~to~~ need to breathe.

② Plants gives us food, medicines and woods.

③ A cloth is 8m long and 5m wide. If Leena wants to lace it around, how much lace is required?

Sol: Length (long) of a cloth = 8m

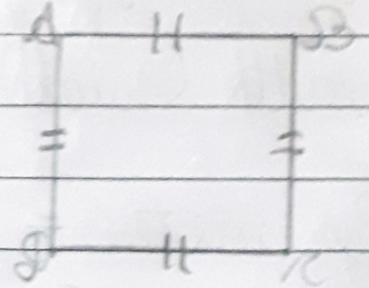
Breadth (width) of a cloth = 5m

Perimeter = 2 × (length + breadth)
= 2 × (8 + 5)
= 2 × 13
= 26m

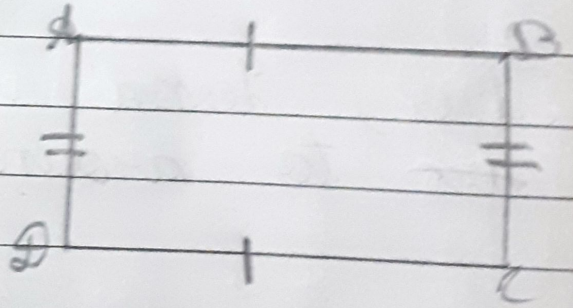
Thus, Leena required 26m lace to around it.

(14) Write the formulas to find the perimeter of square, rectangle and triangle.

Ans:- Perimeter of square = 4 × (length of one side).

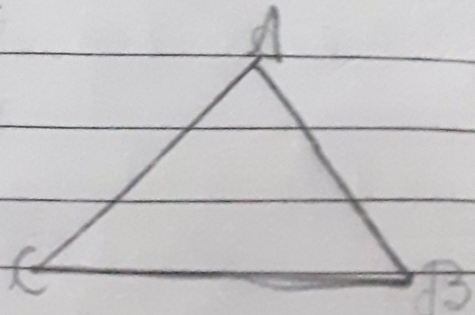


Perimeter of rectangle = 2 × (length + breadth)



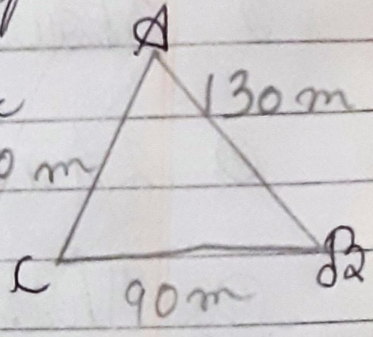
Perimeter of a triangle = Sum of lengths of all three sides.

$= \overline{AB} + \overline{BC} + \overline{CA}$



(15) A triangular field has its sides of length 130 m, 110 m and 90 m respectively. Calculate the distance travelled by a women if she goes around the field twice

Ans Let, $\triangle ABC$ is a triangular field.




It has 3 sides named - $\overline{AB}$, $\overline{BC}$, $\overline{CA}$

Length of $\overline{AB}$ = 130 m
Length of $\overline{BC}$ = 90 m
Length of $\overline{CA}$ = 110 m

Perimeter of a triangular field = Sum of length of all three sides

$= \overline{AB} + \overline{BC} + \overline{CA}$
$= 130 + 90 + 110 = 330$ m

A women travelled twice around the field = $330 \times 2 = 660$ m

She travelled 660 m around the field twice.