BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI – 110034

CLASS IV   SUBJECT: MATHEMATICS   TERM 2(2020-21)

TOPIC – PERIMETER

WEEK: 11.01.2021 to 15.01.2021

LEARNING OUTCOMES

Each child will be able to:

❖ recall the concept of Perimeter as the sum of the length of the sides of the boundary of any closed figure.
❖ solve real life problems involving perimeter of various figures.

EXPERIENTIAL LEARNING

FUN ACTIVITY TO BE DONE AT HOME

Activity 1

A ten rupee-note

Measure of one side of note = _____

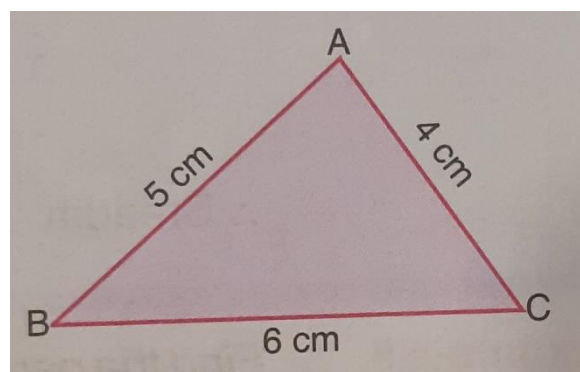Measure of other side of note = _____

Perimeter of note = _____

Children, in the last E – lesson, we learnt to find out the perimeter of irregular figures, let's now learn to find out the perimeter of regular figures
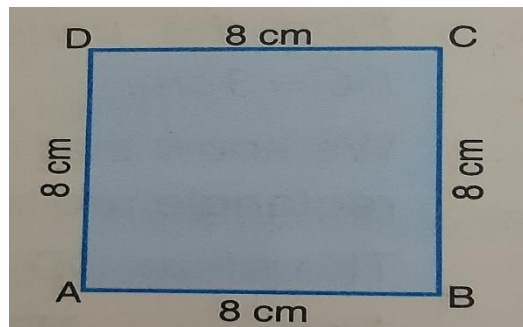
Perimeter of Triangle, Square and Rectangle

We can find out the perimeter of the regular figures by the following 2 ways:

a) TRIANGLE-

By adding its 3 sides i.e. 5cm + 6cm + 4cm = 15 cm

b) <mark>SQUARE</mark>

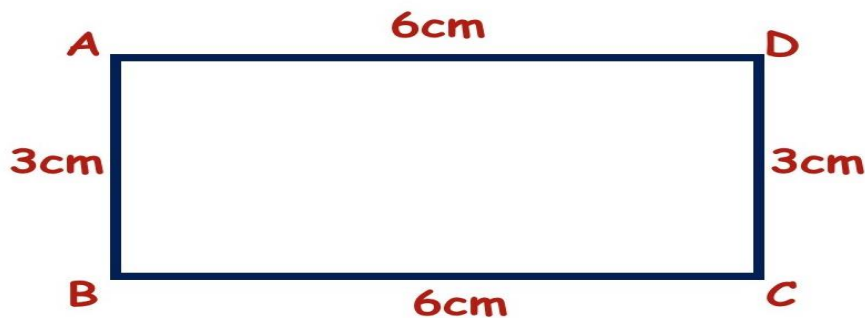By adding its 4 sides i.e. 8cm + 8cm + 8cm + 8cm = 32cm

Or, Perimeter of a Square = 4 X Side =4 X 8 cm = 32 cm

c) <mark>RECTANGLE</mark>

By adding its 4 sides i.e., 6cm + 3cm + 6cm + 3cm = 18 cm

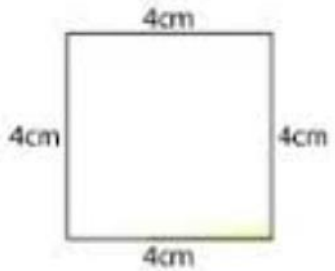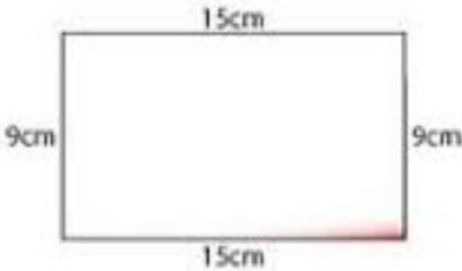Or, Sum of its 2 <mark>adjacent*</mark> sides (AB, BC) + Sum of its 2 adjacent sides (CD, DA)

= 2 X (Sum of 2 adjacent sides) = 2 X (3cm + 6cm) = 2 X 9 cm = 18cm

So, the perimeter of a rectangle = 2 X (Sum of 2 adjacent sides)
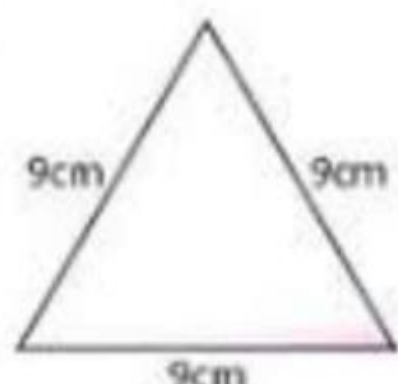
Adjacent sides of a shape means the sides sharing a common vertex.

Q1. **Find out the Perimeter of the following figures using the formulas:**

a   4cm
4cm   4cm
    4cm

P = ___ + ___ + ___ + ___

Perimeter = _____

b   15cm
9cm   9cm
    15cm

P = ___ + ___ + ___ + ___

Perimeter = _____

c

9cm   9cm
    9cm

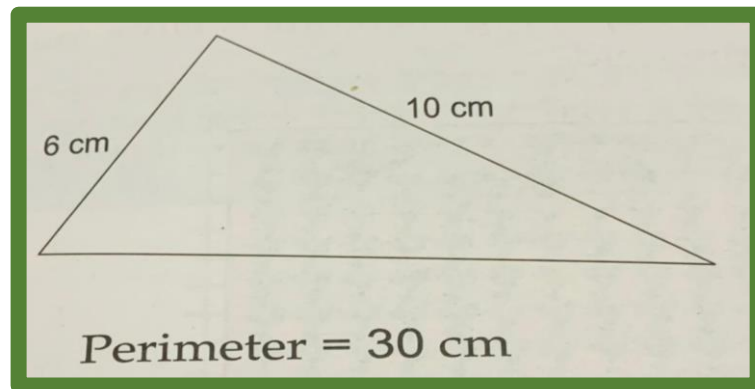P = ___ + ___ + ___

Perimeter = _____

Q2. Find out Perimeter of the following using formula:

a) A square with side = 15cm.

b) A triangle with each side = 4m

c) A rectangle with two adjacent sides of length 14cm and 8cm.

d) A rectangle with length = 6cm and width = 8cm

TO FIND THE MISSING SIDE WHEN PERIMETER IS GIVEN.

EXAMPLE 1: Find the length of the missing side, when the Perimeter is 30 cm.

Perimeter = 30 cm

Solution: Perimeter = 30cm

Side 1= 6cm

Side 2= 10cm

Sum of 2 sides = 6cm+10cm= 16cm

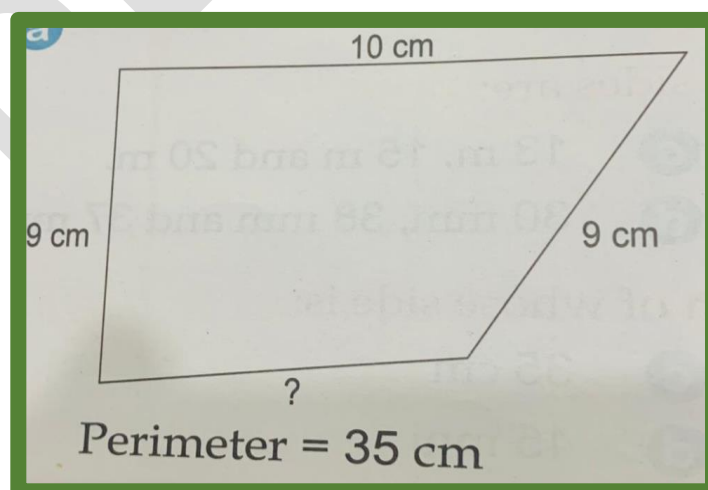Length of third side =Perimeter-Sum of 2 sides

=30cm-16cm

= 14cm

Answer: The length of third side is 14cm.

Question 2 to be done in the Math note book.

Q3. Find the missing length:

Perimeter = 35 cm

The first one has been done for you. Sub-parts to be done in the notebook.

a) A square mirror of side 30cm has to be framed. What is the length of the frame needed?

Solution: Length of side of a square= 30cm

We know that all the sides of a square are equal so length of the frame equal to the sum of length of all sides.

Perimeter of a square = 4x side

Length of the frame = 4x 30cm= 120 cm

Answer: The length of the frame to cover the square mirror is 120cm

b) Hari Ram has to put a fence around his rectangular field of length 15m and breadth 10m.What is the length of the fence needed? If he has fenced 20m, how much more fence is needed to complete the boundary?

c) Sahil jogs around the neighbourhood park every morning. He takes five rounds of the park whose perimeter is 925m. Find out the distance he jogs every day.

d) Rita has to fix a lace around a carpet. She bought a 50m roll of lace. How much lace will be needed for one carpet? How much lace will be used for 5 such carpets? How much lace will be left over? Length of the carpet is 150cm and breadth is 100cm.

For better understanding, please click on the you-tube link below and watch the video.

https://youtu.be/NwO363dyeOg