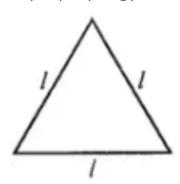
Question 1.

If the side of an equilateral triangle is I, then express the perimeter of the triangle in terms of I.

Solution:

Perimeter (P) of the equilateral triangle with side I = Sum of the lengths of sides of the equilateral triangle = |+|+|=3|

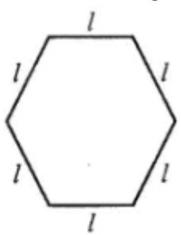


Question 2.

The side of a regular hexagon is I. Express its perimeter in terms of I.

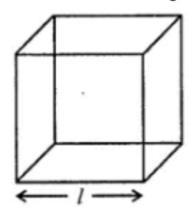
Solution:

Perimeter (P) of the regular hexagon with side I = Sum of the lengths of all sides of the regular hexagon



Question 3.

The length of an edge of a cube isl. Find the formula for the sum of lengths of all the edges of the cube.



Solution:

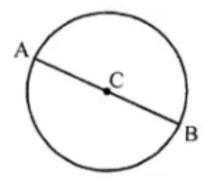
Total length (L) of the edges of a cube = Sum of the lengths of all (12) edges of the cube.

Question 4.

If the radius of a circle is r units, then express the length of a diameter of the circle in terms of r.

Solution:

Draw a circle



Let AB is a diameter of the circle

C its centre

$$AB = AC + CB$$

$$\Rightarrow$$
 d = r + r

$$\Rightarrow$$
 d= 2r