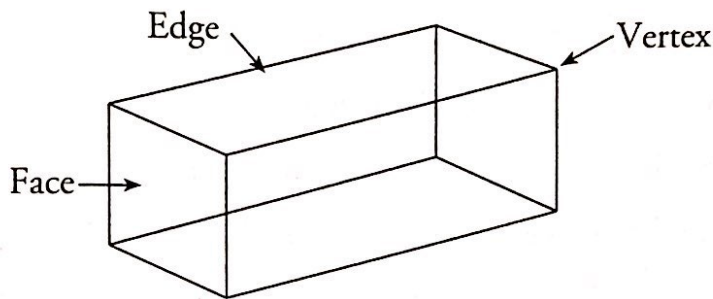


3. Fill in the blanks.

- a) Point from where all points on the circle are at equal distance is called _____.
- b) Chord which passes through centre is _____.
- c) Diameter is _____ \times radius.
- d) The longest chord of the circle is _____.

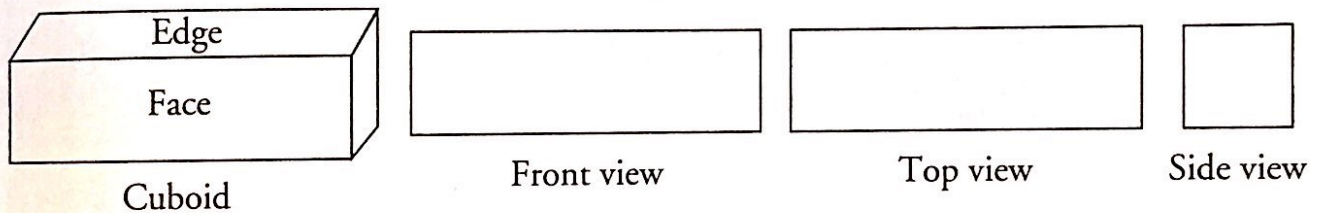
Solid shapes

A solid shape has faces, edges and vertices.



Cuboid: It is a solid shape which has 6 flat faces, 12 edges and 8 vertices. All the faces are not same. Some of them are squares and some are rectangles.

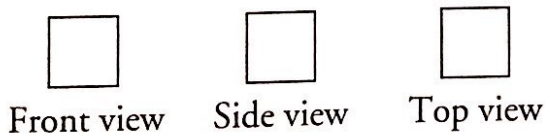
A cuboid looks different from different angles.



Example: Ice cream brick, slab, suitcase and pencil box.

Cube: It is a solid shape which has 6 flat surfaces, 12 edges and 8 vertices. All the faces are square.

A cube looks the same from different angles (front view, side view, top view)



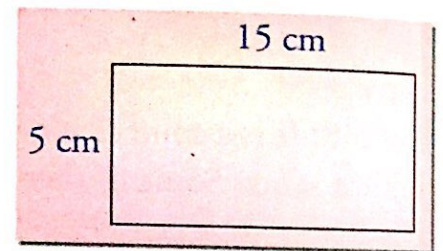
Example: Ice cube, sugar cube and dice.



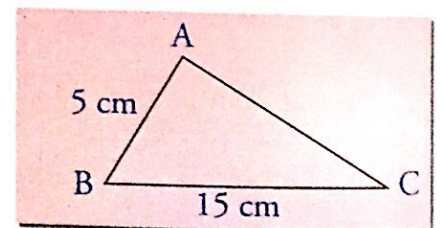
Exercise 6

1. A cuboid has _____ faces, _____ edges and _____ vertices.
2. All the faces of a cuboid are not _____. Some are _____.
3. All the faces of a cube are _____.
4. Top view, front view and side view are same for a _____.
5. Top view, front view and side view are different for a _____.
6. **Answer the following.**
 - a) What is a line segment? Explain with figure.
 - b) What are parallel lines? Explain with figures.
 - c) AOC is an angle. What are AO and OC called?
 - d) How many sides does a quadrilateral have?
 - e) What is the difference between a square and a rectangle?
 - f) What is the difference between a closed figure and an open figure?

7. Calculate the perimeter of the rectangular field shown here.

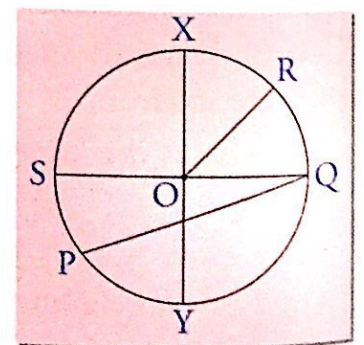


8. Perimeter of the triangle shown here is 30 cm. What is the length of side AC?



9. From the figure, name the following.

- a) centre
- b) radius
- c) diameter
- d) chords



10. What is the relation between a radius and the diameter?

11. Is the circumference and perimeter same for a circle?

12. How many axes of symmetry are there in a circle?
13. How many faces, edges and vertices are there in a cube and a cuboid?
14. What is the difference between a cube and a cuboid?



Mental Maths

EXPERIENTIAL LEARNING

Fill in the blanks.

1. A line _____ is a part of a _____ with _____ definite end points.
2. The angle formed between perpendicular lines is _____.
3. Two lines can only have _____ point of intersection.
4. Parallel lines _____ meet, however long they are extended.
5. At least _____ lines are needed to draw a polygon.
6. The diameter is the _____ chord of the circle.
7. The digit 8 has _____ lines of symmetry.
8. Two equal cubes when joined side by side will form a _____.
9. Two equal squares when joined side by side will form a _____.
10. A triangle with all three sides of different lengths will have _____ line of symmetry.



Maths Lab Activity

EXPERIENTIAL LEARNING

Objective: to make a symmetrical shape

Materials needed: sheets of paper of different shapes, scissors

Procedure: 1. Take a circular sheet of paper.

2. Fold it in half.

3. Fold again it half and three/four times more.

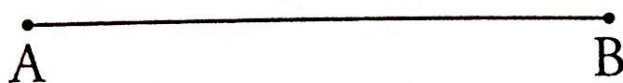
4. Cut a shape with a pair of scissors.

5. Open it up.

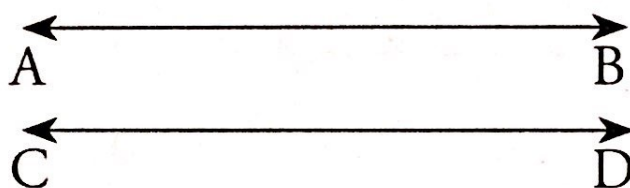
Try with different folds and cuts.

Exercise 6

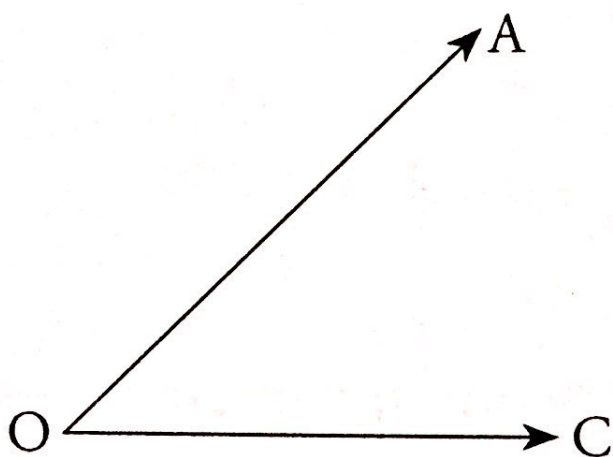
1. 6, 12, 8
2. same, rectangles and squares
3. square
4. cube
5. cuboid
6. a) Line segment is a part of a line with two definite points. It can be named as AB.



- b) Parallel lines are those straight lines which never meet each other. Lines AB and CD are called parallel lines.



c)



AO and OC are called arms of an angle.

d) 4

e) **Square**

1. All sides of a square are equal.
2. Diagonals of square are perpendicular bisector of each other.

Rectangle

1. Only opposite side of rectangle are equal.
2. Diagonals of rectangle are not perpendicular bisector of each other.

f) **Open figures:** These figures do not being and end at the same point.

Closed figures: These figures begin and end at the same point.

7. 50 cm 8. 10 cm

9. a) Centre = O

b) Radius = OS, OQ, OR, OX, OY

c) Diameter = SQ, XY

d) Chords = PQ, XY, SQ

10. Diameter = 2X Radius

11. Yes

12. Infinite

13. **Cube :** 6 faces, 12 edges and 8 vertices

Cuboid : 6 faces, 12 edges and 8 vertices

14.

Cube	Cuboid
1. All faces of cube are same.	1. All faces of cuboid are different.
2. All the faces of cube are square	2. Some faces of cuboid are rectangles.

Mental Maths

1. segment, line, two
2. 90°
3. one
4. never
5. 3
6. longest
7. two
8. cuboid
9. cube
10. zero