

Class-5

Subject- Mathematics,

Chapter- Geometry

Circle

Lecture-3

Creative Question:

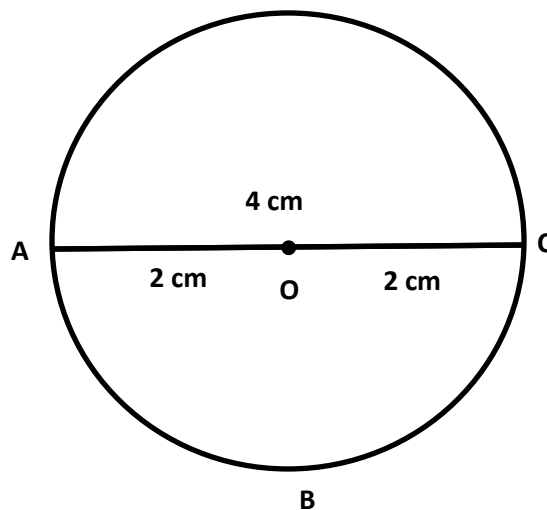
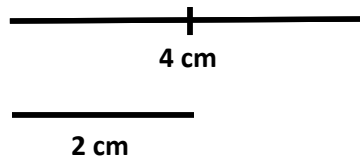
1. Draw a circle –

a) Whose diameter is 4 cm.

b) Write 3 characteristics of the circle.

Solution:

a)



Here, ABC is a circle. $OA = OC = \text{Radius} = 2 \text{ cm}$. Diameter $AC = 4 \text{ cm}$.

b) Characteristics:

1. It is a completely round figure.
2. Each and every point on a circle is equidistance from its centre.
3. Its diameter is 2 times of its radius.

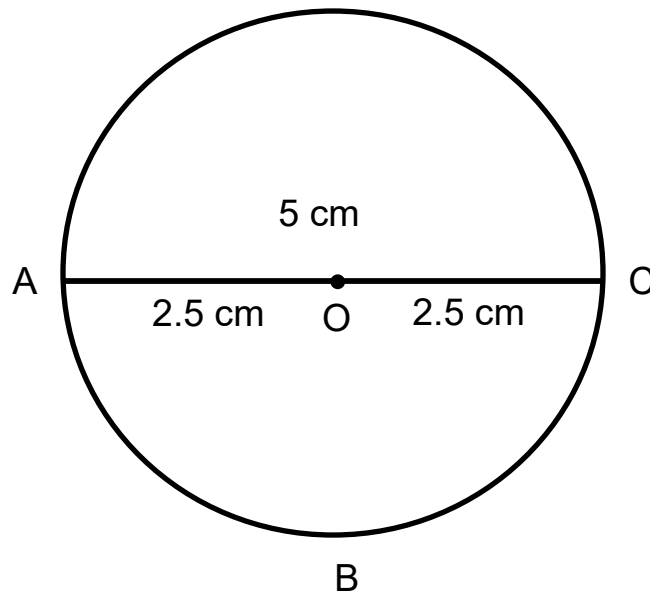
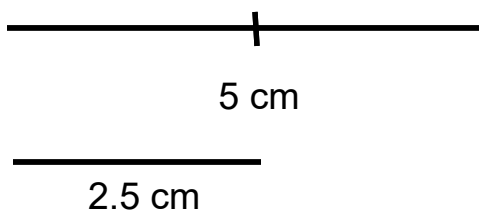
2. The greatest chord of a circle is 5 cm.

a) Draw the circle.

b) Write 3 characteristics of the circle.

Solution:

a) The greatest chord or diameter is 5 cm is drawn below:



Here, ABC is a circle. $OA = OC = \text{Radius} = 2.5 \text{ cm}$. Diameter $AC = 5 \text{ cm}$.

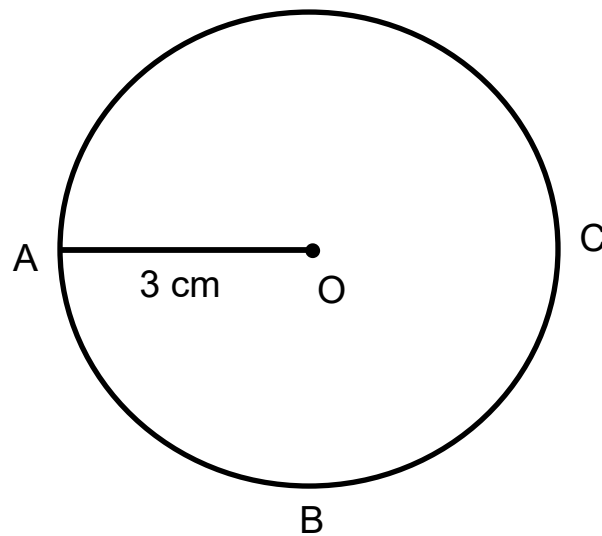
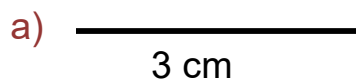
b) Characteristics:

1. It is a completely round figure.
2. Each and every point on a circle is equidistance from its centre.
3. Its diameter is 2 times of its radius.

3. Draw a circle –

- a) Whose radius is 3 cm.
- b) Write 2 characteristics of the circle.

Solution:



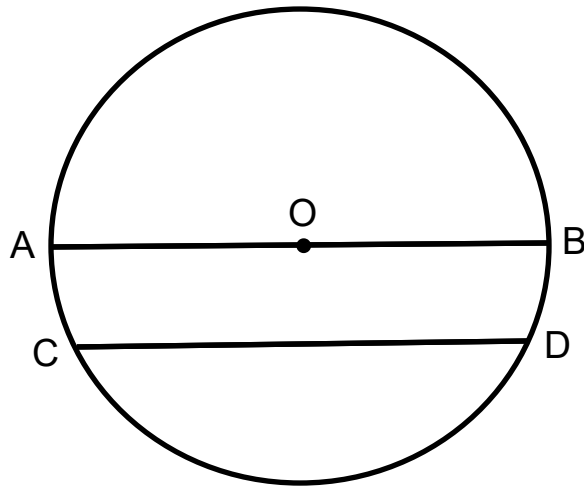
Here, ABC is a circle. $OA = \text{Radius} = 3 \text{ cm}$.

b) Characteristics:

1. It is a completely round figure.
2. Each and every point on a circle is equidistance from its centre.

4. Draw a circle. Measure Diameter, Radius and Chord except a diameter.

Solution:



Here, O is the centre of the circle.

Diameter AB = 5.2 cm.

Radius OA = OB = 2.6 cm.

Chord CD = 4.7 cm.

Rough

Radius = $\frac{1}{2}$ of Diameter

= $(\frac{1}{2} \times 5.2)$ cm

= $\frac{5.2}{2}$ cm

= 2.6 cm

Exercise (Do yourself)

1. Draw a circle –

a) Whose diameter is 7cm.

b) Write 3 characteristics of the circle.

2. Draw a circle –

a) Whose radius is 2.7 cm.

b) Write 2 characteristics of the circle.