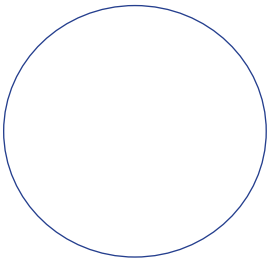


**Q1. State whether the following statements are true or false:**

- a. All chords of a circle are of equal length. \_\_\_\_\_
- b. A semicircle is an arc of a circle. \_\_\_\_\_
- c. Diameter is the longest chord. \_\_\_\_\_
- d. A secant touches the circle only at one point. \_\_\_\_\_

**Q2. A circle with centre O is given below. Mark the following in the circle:**

- a. A point P in its interior
- b. A chord XY
- c. A diameter AB
- d. A semi circle ACB



**Q3. Find the diameter of the circles whose radius is 5.5 cm.**

Answer: \_\_\_\_\_

**Q4. A circle with centre A has radius 7 cm. Determine the position of point X (interior, exterior or on the boundary) with respect to the circle in the following cases and fill in the blanks:**

Case	Position of point X
a. AX = 8.5 cm	_____
b. AX = 5 cm	_____
c. AX = 7 cm	_____

**Q5. Draw a circle and mark a chord XY on it. Shade the minor segment.**

**Q6. Draw the maximum number of tangents that can be drawn from a point in the exterior of a circle.**

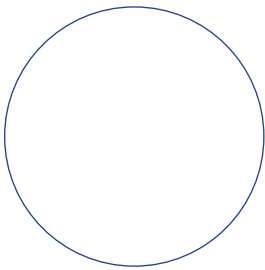
Answer: Maximum number of tangents that can be drawn :\_\_\_\_\_.

**Q7. Rohan drew two concentric circles. The dimensions of the circles are given below. Find out which of them will be the inner circle and outer circle and fill in the blanks.**

Circle with diameter 10 cm \_\_\_\_\_ (Inner/ Outer circle)

Circle with radius 6 cm \_\_\_\_\_ (Inner/ Outer circle)

**Q8. The figure below shows the circular flower bed that Rashi has in her lawn. She wants to plant roses in one quadrant of the flower bed. Shade the area in which she should plant the roses.**



**Q9. Fill in the blanks:**

- A diameter divides the circle into \_\_\_\_\_ semi circles.
- A chord which passes through the centre of a circle is called the \_\_\_\_\_ of the circle.
- Any two diameters of a circle will always intersect at the \_\_\_\_\_.
- A line segment with its end points on the circle is called the \_\_\_\_\_ of a circle.

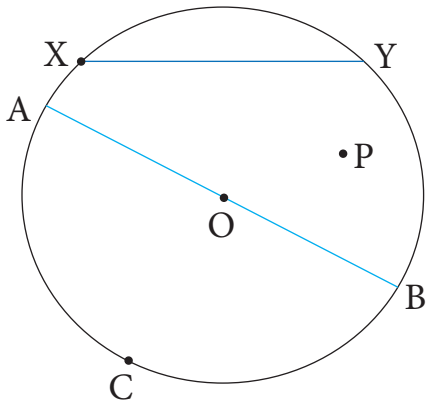
**Q10. Draw two diameters in a circle of radius 4 cm. Join the end points of the diameters. What figure did you get on joining the end points?**

Answer: \_\_\_\_\_

## ANSWERS

1. a. False,    b. True,    c. True,    d. False

2.



3. 11 cm

4. Case

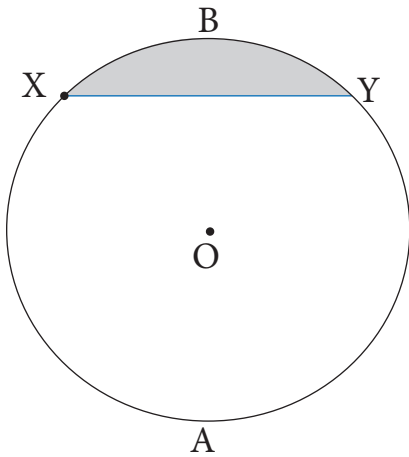
a.  $AX = 8.5$  cm

b.  $AX = 5$  cm

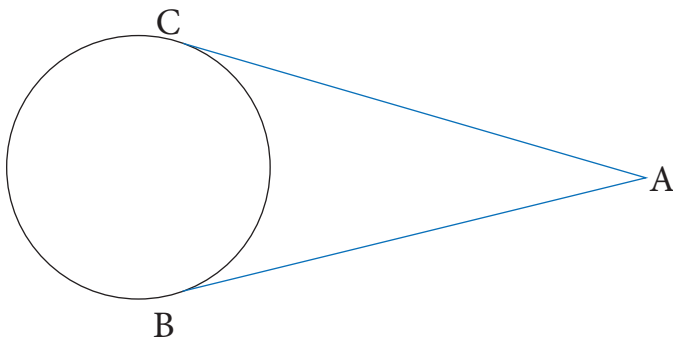
c.  $AX = 7$  cm

Position of point X  
in the exterior  
in the interior  
on the boundary

5.



6.

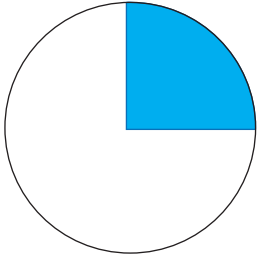


AB and AC are the two tangents.

Maximum number of tangents that can be drawn: 2.

7. Circle with diameter 10 cm      Inner circle  
Circle with radius 6 cm      Outer circle

8.



9. a. Two,      b. diameter,      c. centre,      d. chord

10. Rectangle