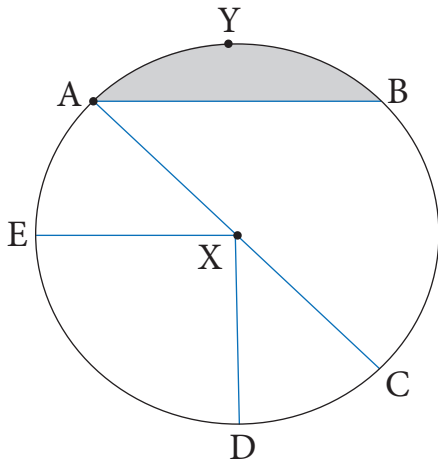


**Q1. Fill in the blanks:**

- A diameter of a circle is twice its \_\_\_\_\_.
- The \_\_\_\_\_ of a circle is the longest chord.
- A circle can be divided into \_\_\_\_ quadrants.
- Two circles having the same centre are said to be \_\_\_\_\_ circles.

**Q2. In the given figure identify the following:**



- Centre of the circle: \_\_\_\_\_
- Radii of the circle: \_\_\_\_\_
- Longest chord of the circle: \_\_\_\_\_
- Segment of the circle: \_\_\_\_\_
- Quadrant of the circle: \_\_\_\_\_

**Q3. The radius of a circle is 3.25 cm. Find its diameter.**

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

**Q4. A point P is marked in a circle with centre O. If the diameter AB is 10 cm long, tick the cases in which P will lie in the interior of the circle:**

- |                  |                  |
|------------------|------------------|
| a. $OP = 3$ cm   | b. $OP = 5$ cm   |
| c. $OP = 8.5$ cm | d. $OP = 4.5$ cm |

**Q5. Draw a circle with centre O. Draw a tangent XY such that it touches the circle at point X. What is the measure of  $\angle OXY$ ?**

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

**Q6. Draw a circle and mark a chord XY on it. Shade the major segment.**

**Q7. Which of the following circles will be bigger?**

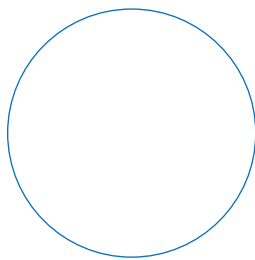
- a. A circle with diameter 11 cm            OR  
b. A circle with radius 5.5 cm

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

**Q8. State whether the following statements are true or false:**

- a. If the diameter of a circle is 4 cm its radius should be 8 cm.            \_\_\_\_\_  
b. A circle can have infinite radii.            \_\_\_\_\_  
c. Two adjacent quadrants together make a semi circle.            \_\_\_\_\_  
d. A tangent touches a circle at two points.            \_\_\_\_\_

**Q9. Rakhi bought a pizza and divided it into 2 sectors. She gave the major sector to her son and kept the minor sector for herself. The figure below shows the pizza that Rakhi bought. Divide it into appropriate sectors and shade the portion that she kept for herself.**



**Q10. Draw a circle with radius 3 cm. Draw a diameter AB. Mark a point P on the boundary of the circle. Join AP and BP. Find the measure of the  $\angle APB$ .**

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

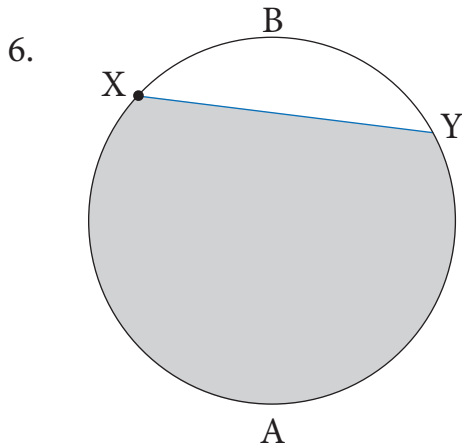
## ANSWERS

- a. radius, b. diameter, c. four, d. concentric
- a. Centre of the circle: X  
b. Radii of the circle: XA, XC, XD, XE  
c. Longest chord of the circle: AC  
d. Segment of the circle: shaded region AYB  
e. Quadrant of the circle: Region bound by radii XE and XD and arc ED

3. 6.5 cm

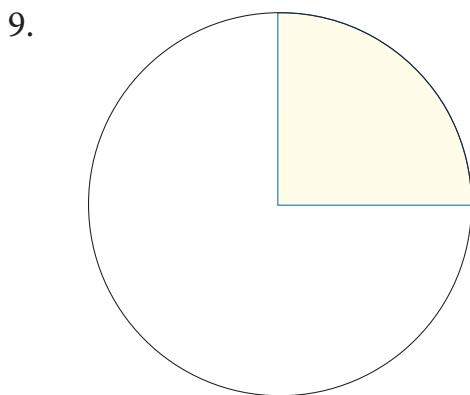
4. (a) and (d)

5.  $90^\circ$



7. Both circles will be of same size

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



10.  $\angle APB = 90^\circ$