

\* Do Q3, Q4, Q5 in your copies.

\* Do Q1, Q2, Q6 in your book.



## Self Practice 11E

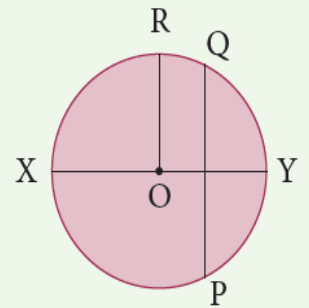
1. Observe the figure and fill in the blanks.

(a) A radius of the circle is OY, OX, OR

(b) The centre of the circle is O.

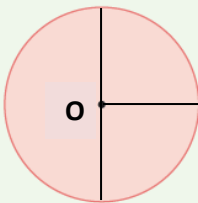
(c) PQ is a Chord of the circle.

(d) XY is a diameter of the circle.



2. Draw the radius and diameter for the following circles. Also, write their measures.

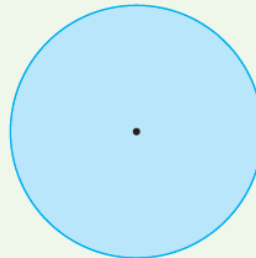
(a)



Radius = 1.2 cm

Diameter = 2.4 cm

(b)



(c)



**(b) and (c) are homework**

3. Use your compasses to draw a circle of the following radii.

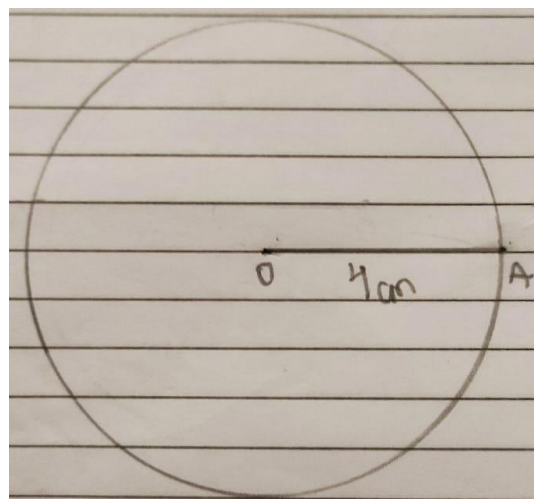
(a) 4 cm

(b) 5.5 cm

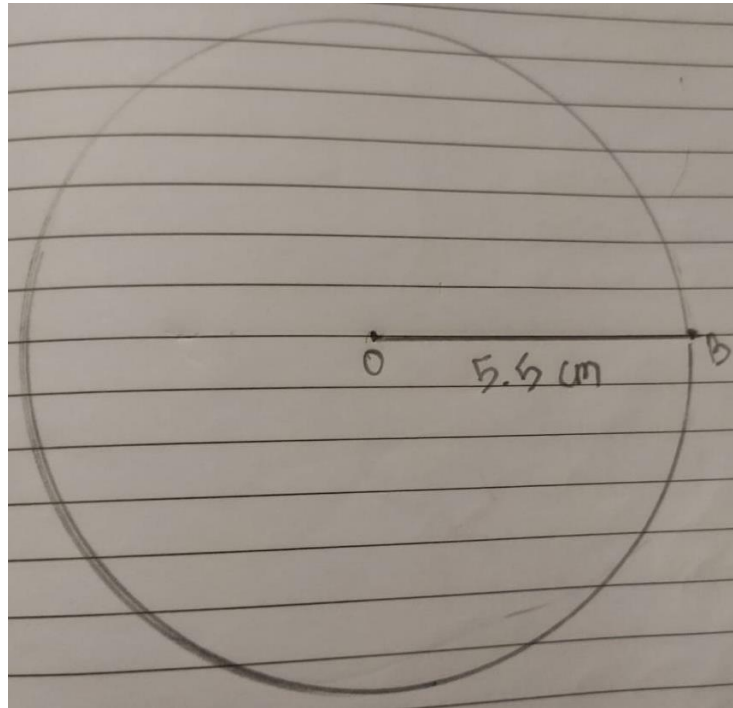
(c) 9 cm

(d) 10.2 cm

**Solution 3:-** (a) 4cm



(b) 5.5 cm



**(c) and (d) are homework**

4. Find the radii of the circles whose diameters are given below.

(a) 8 cm

(b) 24 cm

(c) 12 cm

(d) 18 cm

**Solution 4:-** (a) 8 cm

$$\text{Radius} = \frac{1}{2} \times \text{diameter}$$

$$= \frac{1}{2} \times 8 \text{ cm}$$

$$= \frac{8}{2} \text{ cm} = 4 \text{ cm}$$

(b) 24 cm

$$\text{Radius} = \frac{1}{2} \times \text{diameter}$$

$$= \frac{1}{2} \times 24 \text{ cm}$$

$$= \frac{24}{2} \text{ cm} = 12 \text{ cm}$$

**(c) and (d) are homework**

5. Find the diameters of the circles whose radii are given below.

(a) 3 cm

(b) 12 cm

(c) 10 cm

(d) 14 cm

**Solution 5:-** (a) 3 cm

$$\text{Diameter} = 2 \times \text{radius}$$

$$= 2 \times 3 \text{ cm}$$

$$= 6 \text{ cm}$$

(c) 10 cm

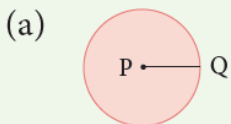
$$\text{Diameter} = 2 \times \text{radius}$$

$$= 2 \times 10 \text{ cm}$$

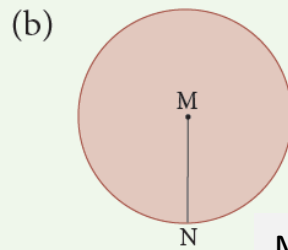
$$= 20 \text{ cm}$$

**(b) and (d) are homework**

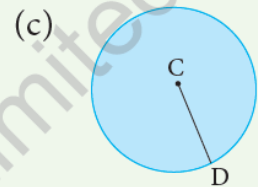
6. Identify the centre and radius of the following circles.



Centre:     P      
Radius:     PQ    



Centre:     M      
Radius:     MN    



Centre:             
Radius:           

**(c) is homework**