MISCELLANEOUS EXERCISE – 12

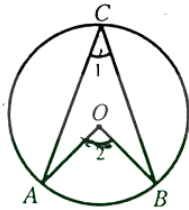**Q. 1 Multiple Choice Questions**

Four possible answers are given for the following questions.

1. A circle passes through the vertices of a right angled $\triangle ABC$ with $m\overline{AC}$ = 3cm and $m\overline{BC}$ =4cm, $m\angle C = 90^o$, Radius of the circle is:
   - (a) 1.5 cm
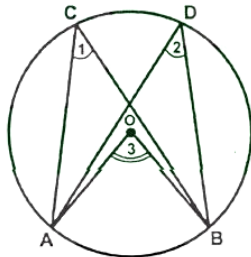   - (b) 2.0 cm
   - (c) 2.5 cm
   - (d) 3.5 cm

2. In the adjacent circular figure, central and inscribed angles stand on the same are AB.
   - (a) $m\angle 1 = m\angle 2$
   - (b) $m\angle 1 = 2m\angle 2$
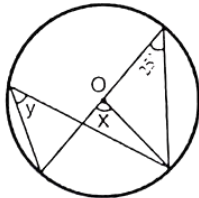   - (c) $m\angle 2 = 3m\angle 1$
   - (d) $m\angle 2 = 2m\angle 1$

3. In the adjacent figure if $m\angle 3 = 75^o$, then find $m\angle 1$ and $m\angle 2$
   - (a) $37\dfrac{1^o}{2}$, $37\dfrac{1^o}{2}$
   - (b) $37\dfrac{1^o}{2}$, 75°
   - (c) 75°, $37\dfrac{1^o}{2}$
   - (d) $75^o, 75^o$

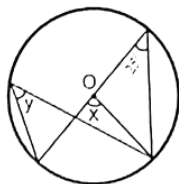4. Given that O is the centre of the circle, the angle marked x will be.
   - (a) $12\dfrac{1^o}{2}$
   - (b) 25°
   - (c) 50°
   - (d) 75°

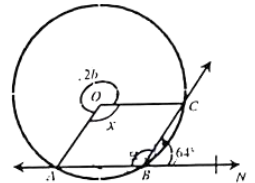

5. Given that O is the centre of the circle the angle marked y will be.
   - (a) $12\dfrac{1^o}{2}$
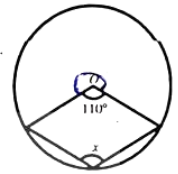   - (b) 25°
   - (c) 50°
   - (d) 75°

6. In the figure, O is the centre of the circle and $\overleftrightarrow{ABN}$ is a straight line. The obtuse angle AOC = x is.
   - (a) 32°
   - (b) 64°
   - (c) 96°
   - (d) 116°
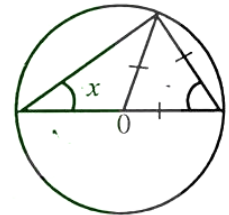

7. In the figure , O is the centre of the circle, then the angle x is
   - (a) 55°
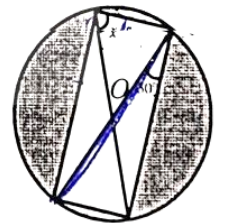   - (b) 110°
   - (c) 220°
   - (d) 125°

8. In the figure, O is the centre of the circle then angle x is.
   - (a) 15°
   - (b) 30°
   - (c) 45°
   - (d) 60°

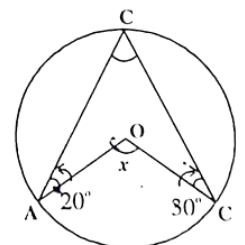

9. In the figure ,O is the centre of the circle then the angle x is
   - (a) 15°
   - (b) 30°
   - (c) 45°
   - (d) 60°

10. In the figure, O is the centre of the circle then the angle x is.
    - (a) 50°
    - (b) 75°
    - (c) 100°
    - (d) 125°

ANSWER KEY

1.	c	2.	d	3.	a	4.	c	5.	b
6.	d	7.	·b	8.	b	9.	d	10.	c