

MISCELLANEOUS EXERCISE - 12

Q. 1 Multiple Choice Questions

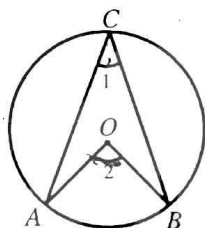
Four possible answers are given for the following questions.

1. A circle passes through the vertices of a right angled $\triangle ABC$ with $m\overline{AC} = 3\text{cm}$ and $m\overline{BC} = 4\text{cm}$, $m\angle C = 90^\circ$, Radius of the circle is:

(a) 1.5 cm (b) 2.0 cm
(c) 2.5 cm (d) 3.5 cm

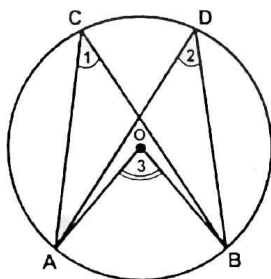
2. In the adjacent circular figure, central and inscribed angles stand on the same arc AB.

(a) $m\angle 1 = m\angle 2$
(b) $m\angle 1 = 2m\angle 2$
(c) $m\angle 2 = 3m\angle 1$
(d) $m\angle 2 = 2m\angle 1$



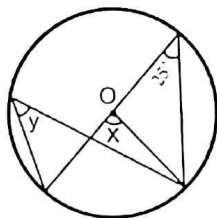
3. In the adjacent figure if $m\angle 3 = 75^\circ$, then find $m\angle 1$ and $m\angle 2$

(a) $37\frac{1}{2}^\circ, 37\frac{1}{2}^\circ$
(b) $37\frac{1}{2}^\circ, 75^\circ$
(c) $75^\circ, 37\frac{1}{2}^\circ$
(d) $75^\circ, 75^\circ$



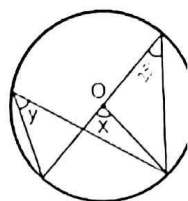
4. Given that O is the centre of the circle, the angle marked x will be.

(a) $12\frac{1}{2}^\circ$ (b) 25°
(c) 50° (d) 75°



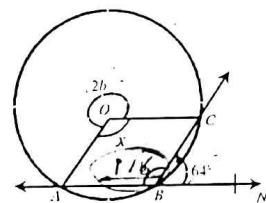
5. Given that O is the centre of the circle the angle marked y will be.

(a) $12\frac{1}{2}^\circ$ (b) 25°
(c) 50° (d) 75°



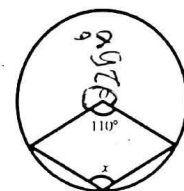
6. In the figure, O is the centre of the circle and $\overleftrightarrow{ABN}$ is a straight line. The obtuse angle $\angle AOC = x$ is.

(a) 32°
(b) 64°
(c) 96°
(d) 116°



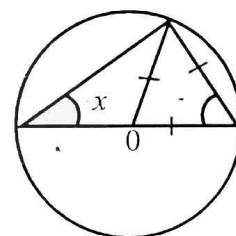
7. In the figure, O is the centre of the circle, then the angle x is

(a) 55°
(b) 110°
(c) 220°
(d) 125°



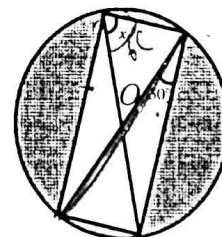
8. In the figure, O is the centre of the circle then angle x is.

(a) 15°
(b) 30°
(c) 45°
(d) 60°



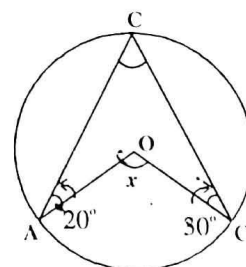
9. In the figure, O is the centre of the circle then the angle x is

(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