

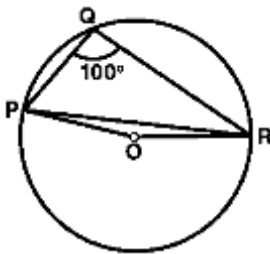


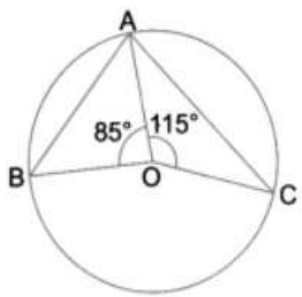
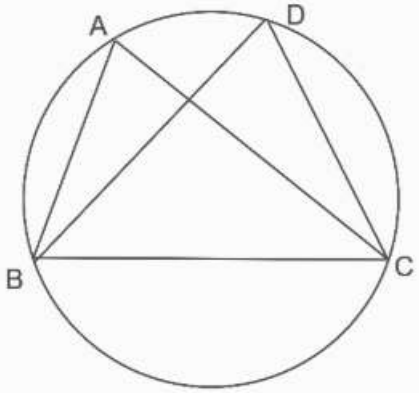
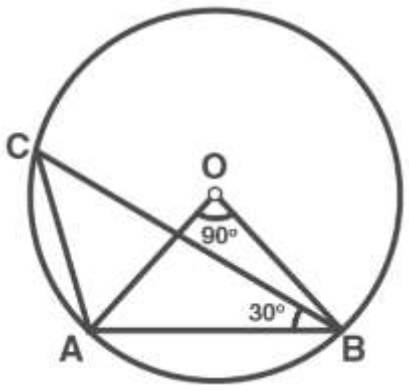
INDIAN SCHOOL AL WADI AL KABIR

Class IX, Mathematics

Worksheet- I'M UP AND DOWN ROUND AND ROUND-MCQ

OBJECTIVE TYPE (1 Mark)

Q.1	A chord of length 16 cm is drawn in a circle of radius 10 cm. What is the perpendicular distance of the chord from the center?							
	A	6 cm	B	8 cm	C	10 cm	D	12 cm
Q.2.	The perpendicular distance of a chord from the centre of a circle is 5 cm, and the radius of the circle is 13 cm. What is the length of the chord?							
	A	24 cm	B	10 cm	C	12 cm	D	26 cm
Q.3.	Two parallel chords of a circle have lengths 6 cm and 8 cm. They are on the same side of the center. If the radius of the circle is 5 cm, what is the distance between the two chords?							
	A	1 cm	B	2 cm	C	3 cm	D	7 cm
Q.4.	A chord of a circle is equal to the radius of the circle. What is the angle subtended by this chord at a point on the minor arc?							
	A	30°	B	60°	C	90°	D	150°
Q.5.	The angles of a cyclic quadrilateral are in the ratio 1:2:3:4. Find the measure of the smallest angle							
	A	30°	B	36°	C	45°	D	60°
Q.6.	An angle in a semicircle is a right angle. If a right-angled triangle is inscribed in a semicircle of diameter 10 cm and one of its sides is 6 cm, what is the length of the other side?							
	A	5 cm	B	7 cm	C	8 cm	D	9 cm
Q.7.	ABCD is a cyclic quadrilateral. Angle A and Angle C are in the ratio 3:1. What is the measure of Angle A?							
	A	30°	B	45°	C	60°	D	135°
Q.8	In the given figure, the measure of $\angle OPR$ is							
								
	A	20°	B	15°	C	12°	D	10°

Q.9	In the given figure, O is the centre of the circle with $\angle AOB = 85^\circ$ and $\angle AOC = 115^\circ$. Then, $\angle BAC$ is							
	A	115°	B	85°	C	100°	D	80°
Q.10	In the given figure, $\angle ABC = 69^\circ$, $\angle ACB = 31^\circ$. Then which of the following is the value of $\angle BDC$?							
	A	100°	B	80°	C	75°	D	95°
Q.11	AD is a diameter of a circle and AB is a chord. If AD = 34 cm and AB = 30 cm, the distance of AB from the centre of the circle is:							
	A	17 cm	B	15 cm	C	4 cm	D	8 cm
Q.12	In a circular sports arena, three runners are stationed at points A, B, and C on the circular perimeter. An observer at the central control room O notices that the central angle $\angle AOB = 90^\circ$. A spectator sitting at point C on the stadium seats (located on the circle outside arc AB) views the two runners A and B. What is the measure of $\angle CAO$?							
	A	30°	B	45°	C	60°	D	90°
Q.13	Four observation posts P, Q, R, and S are built along a circular boundary wall of a sanctuary, forming a cyclic quadrilateral PQRS. If a ranger at post P measures $\angle P = (2x + 10)^\circ$ and the ranger at the opposite post R measures $\angle R = (3x - 20)^\circ$, the value of x is:							
	A	38°	B	36°	C	40°	D	50°

Q.14	Four points A, B, C, and D are marked on a flat terrain. The line segment AB subtends an angle of 45° at point C and an angle of 45° at point D, where C and D lie on the same side of AB. Which statement must be true?							
	A	ABCD forms a square	B	Points A, B, C, and D are concyclic	C	Line AB is perpendicular to CD	D	Points A, B, C, and D are collinear
Q.15	A circular clock face has numbers marked along its edge. A child draws two chords connecting positions on the edge: chord AB subtends an angle of 50° at the centre O, and chord CD subtends an angle of 50° at O. If the length of chord AB is 7 cm, then the length of chord CD is:							
	A	3.5 cm	B	7 cm	C	14 cm	D	10 cm
DIRECTION: In the following questions, a statement of assertion (A) is followed by statement of Reason (R). Choose the correct option								
(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)								
(b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)								
(c) Assertion (A) is true but reason (R) is false.								
(d) Assertion (A) is false but reason (R) is true								
Q.16	Assertion: The length of a chord which is at a distance of 3 cm from the centre of a circle of radius 5 cm is 8 cm Reason: The perpendicular from the centre of a circle to a chord bisects the chord							
Q.17	Assertion: O is the centre of circle and AC is an arc. If $\angle AOC = 120^\circ$, then $\angle ABC = 110^\circ$, where B is any point on the arc AC. Reason: In cyclic quadrilateral, opposite angles are supplementary.							
Answers								
Answers	1	A	2	A	3.	A	4	D
	5	B	6	C	7	D	8	D
	9	C	10	B	11	D	12	C
	13	A	14	B	15	B	16	A
	17	D						
