



Class 9 Mathematics | I'M Up And Down, And Round And Round

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. The longest chord of a circle is its:

- A. tangent B. diameter C. minor arc D. radius

2. A chord 16 cm long is 6 cm from the centre. The radius is:

- A. 14 cm B. 20 cm C. 8 cm D. 10 cm

3. In the same circle, equal chords are:

- A. always perpendicular
B. equidistant from the centre
C. always diameters
D. unequal in central angle

4. The angle subtended by a diameter at a point on the circle is:

- A. 180° B. 90° C. 45° D. 60°

5. An arc subtends 110° at the centre. At a point on the remaining arc it subtends:

- A. 110° B. 55° C. 35° D. 220°

6. Two angles standing on the same chord in the same segment are:

- A. always right angles B. equal
C. complementary D. supplementary

7. One angle of a cyclic quadrilateral is 72° . Its opposite angle is:

- A. 18° B. 108° C. 144° D. 72°

8. How many circles pass through three non-collinear points?

- A. None B. Two C. One D. Infinitely many

9. The circumcentre of a right triangle is at the:

- A. midpoint of a leg
B. midpoint of its hypotenuse
C. right-angle vertex
D. centroid

10. A perpendicular from the centre meets chord AB at M. If $AM=7$ cm, AB is:

- A. 21 cm B. 14 cm C. 3.5 cm D. 7 cm

11. In one circle, chord AB is longer than CD. Which is closer to the centre?

- A. AB
B. Cannot be determined
C. Both equally close
D. CD

12. The exterior angle at one vertex of a cyclic quadrilateral equals the:

- A. interior adjacent angle
B. sum of opposite angles
C. central angle
D. interior opposite angle

13. In a circle of radius 13 cm, a chord is 5 cm from centre. Its length is:

- A. 24 cm B. 18 cm C. 12 cm D. 26 cm

14. An inscribed angle is 38° . The same arc subtends at the centre:

- A. 38° B. 142° C. 76° D. 19°

15. Angles A and C of quadrilateral ABCD are 95° and 85° . What follows?

- A. ABCD is a rhombus
B. ABCD is a square
C. ABCD is cyclic
D. ABCD cannot be cyclic

ANSWER KEY — check after completing all 15 questions

1.B 2.D 3.B 4.B 5.B 6.B 7.B 8.C 9.B 10.B 11.A 12.D 13.A 14.C 15.C

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper