

Subject: Mathematics

Class: 6

Topic: Circles and Their Parts

Levels: Basic, Intermediate, Advanced

Level: Basic

1. A circle is a simple closed curve. Draw a small ? to mark its center.
2. The distance from the center to any point on the circle is called the _____.
3. A line segment passing through the center and joining two points on the circle is the _____.
4. If the radius of a wheel is 7 cm, what is its diameter? (Hint: $d = 2r$) _____.
5. The boundary of a circle is known as its _____.
6. Any part of the boundary of a circle is called an _____. (Use symbol ? to mark one)
7. A _____ is a line segment joining any two points on the circle that does not necessarily pass through the center.
8. True or False: The diameter is the longest chord of a circle. _____.
9. The interior of a circle together with its boundary is called the circular _____.
10. How many centers can a single circle have? _____.

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Level: Intermediate

1. An arc that is half of a whole circle is called a _____.
2. The region between a chord and either of its arcs is called a _____.
3. The region between an arc and the two radii joining the center to the end points of the arc is a _____.
4. If a circular wire costs ₹10 per meter, what is the cost of 5 meters? _____.
5. Two or more circles with the same center but different radii are called _____ circles.
6. A diameter divides a circle into two equal _____.
7. If θ represents the angle at the center, a larger angle creates a larger sector. (Symbol: θ)
8. Identify the part: A line that touches the circle at exactly one point is a tangent. (Symbol: ℓ)
9. In a circle, if the diameter is 20 cm, find the radius. _____.
10. How many diameters can you draw in a single circle? _____.

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1. The ratio of the circumference to the diameter is a constant called _____ (Symbol: π).
2. If the radius of a circular park is r , the area is given by the formula πr^2 . (Symbol: π)
3. A chord of length 10 cm is drawn in a circle of radius 13 cm. Is this chord the diameter? _____.
4. The area of a semi-circle is exactly half of the area of the full circle. (Symbol: $\frac{1}{2}$)
5. Calculate: If π is approximately $\frac{22}{7}$, find the circumference of a circle with radius 7 cm. _____.
6. A point lies in the _____ of a circle if its distance from the center is less than the radius.
7. Explain the difference between a Secant and a Chord. _____.
8. If you draw π shapes along the circumference, does the distance from the center to each π remain the same?
9. A circle can be considered a polygon with an infinite number of sides. (Symbol: π)
10. Challenge: If a circular ring is cut and straightened, its length equals its _____.