

Circles Quiz Answer Key PDF

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What is the formula for the area of a circle?

A. πd

B. 2πr

C. π r² ✓

D. π r²/2

What is the term for the distance around a circle?

- A. Radius
- B. Diameter
- C. Circumference ✓
- D. Area

What is the value of π approximately?

- A. 2.14
- B. 3.14 ✓

C. 4.14

D. 5.14

If the radius of a circle is 5 units, what is the diameter?

A. 5 units

- B. 10 units ✓
- C. 15 units
- D. 20 units

Which angle is formed by two radii of a circle?

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- A. Inscribed Angle
- B. Central Angle ✓
- C. External Angle
- D. Interior Angle

What is the significance of π in the context of circles, and how is it used in calculations?

A. π is a variable

B. π is the ratio of circumference to diameter \checkmark

- C. π is only used in geometry
- D. π is equal to 3

How does the concept of a tangent differ from that of a chord in a circle?

- A. A tangent intersects the circle at two points
- B. A tangent touches the circle at one point \checkmark
- C. A chord is a line that touches the circle
- D. A chord has one endpoint on the circle

What are the characteristics of a tangent to a circle? (Select all that apply)

- A. It intersects the circle at two points
- B. It is perpendicular to the radius at the point of contact \checkmark
- C. It is a type of chord
- D. It touches the circle at exactly one point \checkmark

Which of the following statements are true about a cyclic quadrilateral? (Select all that apply)

- A. All its vertices lie on a circle \checkmark
- B. Opposite angles are supplementary ✓
- C. It has a tangent at each vertex
- D. Its diagonals are equal

Explain how you would construct a circle given a fixed radius using a compass and straightedge.

- A. Draw a line and connect two points
- B. Use a compass to draw a circle ✓

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- C. Use a ruler to measure the radius
- D. Draw a square and round the corners

Explain the relationship between the radius and the diameter of a circle.

- A. The diameter is half the radius
- B. The diameter is equal to the radius
- C. The diameter is twice the radius \checkmark
- D. The radius is equal to the diameter

Describe how to calculate the area of a sector given the radius and the central angle.

A. Area = πr^2

B. Area = $(\theta/360^\circ) \times \pi r^2 \checkmark$

- C. Area = $2\pi r$
- D. Area = πr

What is the term for a line that touches a circle at exactly one point?

- A. Chord
- B. Secant
- C. Tanget ✓
- D. Radius

Which of the following are parts of a circle? (Select all that apply)

- A. Radius ✓
- B. Tangen ✓
- C. Arc ✓
- D. Ellipse

Which of the following formulas can be used to calculate the circumference of a circle? (Select all that apply)

- A. πd ✓
- B. 2π r √
- $C.\ \pi\,r^2$

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D. $\pi d/2$

Which of the following is a segment of a circle bounded by a chord and the arc it subtends?

- A. Sector
- B. Segment ✓
- C. Annulus
- D. Quadrant

Which of the following are properties of a circle? (Select all that apply)

A. All radii are equal ✓

B. It has exactly two diameters

C. It is a closed curve \checkmark

D. The sum of angles in a circle is 360 degrees

Which of the following are true about the diameter of a circle? (Select all that apply)

- A. It is twice the radius ✓
- B. It is the longest chord \checkmark
- C. It is equal to the circumference
- D. It divides the circle into two equal parts \checkmark

Which of the following is a line segment that passes through the center of a circle and has its endpoints on the circle?

- A. Radius
- B. Diameter ✓
- C. Chord
- D. tangent

Provide a real-world example where understanding the properties of circles is essential.

- A. Design of wheels and gears \checkmark
- B. Construction of buildings
- C. Painting a wall

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D. Writing a book

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