

Fundamentals of Geometry

Geometry · Answer Key · 10 Questions

1. What is the sum of the interior angles of a convex quadrilateral?

- A) 180 degrees
- B) 270 degrees
- C) 360 degrees**
- D) 540 degrees

2. Which term describes two angles that add up to 90 degrees?

- A) Supplementary angles
- B) Complementary angles**
- C) Adjacent angles
- D) Vertical angles

3. What is the relationship between the diameter and the radius of a circle?

- A) Diameter = $2 \times$ Radius**
- B) Diameter = Radius / 2
- C) Diameter = ? $\times$ Radius
- D) Diameter = Radius + 2

4. A triangle with three unequal sides is classified as what?

- A) Equilateral
- B) Isosceles
- C) Scalene**
- D) Right-angled

5. Which geometric shape has exactly four equal sides and four right angles?

- A) Rhombus
- B) Trapezium
- C) Rectangle
- D) Square**

6. What is the formula to calculate the area of a triangle?

- A) Base $\times$ Height
- B) (Base $\times$ Height) / 2**
- C) $2 \times$ (Base + Height)
- D) ? $\times$ Radius squared

7. If two lines are intersected by a transversal, what are the angles in the same relative position at each intersection called?

- A) Alternate interior angles
- B) Consecutive interior angles
- C) Corresponding angles**
- D) Vertical angles

8. What is the definition of a polygon with exactly five sides?

- A) Hexagon
- B) Pentagon**
- C) Heptagon
- D) Octagon

9. The total sum of the exterior angles of any convex polygon is always equal to:

- A) 180 degrees
- B) 360 degrees**
- C) 540 degrees
- D) 720 degrees

10. Which line segment connects two points on a circle and passes through the centre?

- A) Chord
- B) Radius
- C) Diameter**
- D) Tangent