

# Geometry Challenges for Young Minds

Geometry · Practice Test · 13 Questions

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**1. Which type of quadrilateral always has four equal sides but does not necessarily have four right angles?**

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

**2. How many faces does a regular octahedron have?**

- A) 4
- B) 6
- C) 8
- D) 12

**3. What is the term for a line segment that connects two non-adjacent vertices of a polygon?**

- A) Side
- B) Edge
- C) Diagonal
- D) Radius

**4. What is the specific name for a polygon where all sides are equal in length and all interior angles are equal in measure?**

- A) Irregular polygon
- B) Convex polygon
- C) Concave polygon
- D) Regular polygon

**5. Which geometric solid is defined as having two identical and parallel polygonal bases, with rectangular or parallelogram faces connecting them?**

- A) Pyramid
- B) Cone
- C) Prism
- D) Cylinder

**6. What is the sum of the interior angles of any quadrilateral?**

- A) 90 degrees
- B) 180 degrees
- C) 360 degrees
- D) 540 degrees

**7. If two angles add up to exactly 90 degrees, what are they called?**

- A) Supplementary angles
- B) Reflex angles
- C) Complementary angles
- D) Obtuse angles

**8. What is the common name for the distance around the outer boundary of a circle?**

- A) Diameter
- B) Radius
- C) Circumference
- D) Area

**9. How many lines of symmetry does a regular pentagon possess?**

- A) 1
- B) 3
- C) 4
- D) 5

**10. Which geometric transformation involves moving a shape without rotating, reflecting, or resizing it?**

- A) Rotation
- B) Reflection
- C) Translation
- D) Dilation

**11. A straight angle measures exactly how many degrees?**

- A) 90 degrees
- B) 180 degrees
- C) 270 degrees
- D) 360 degrees

**12. What is the maximum number of edges that can meet at a single vertex in a cube?**

- A) 1
- B) 2
- C) 3
- D) 4

**13. What is the specific name for the region of a circle bounded by two radii and the arc between them?**

- A) Segment
- B) Chord
- C) Sector
- D) Tangent