

Fundamental Geometry Concepts

Basic Geometry · Answer Key · 15 Questions

1. What is the name of a polygon with three sides?

- A) Quadrilateral
- B) Triangle**
- C) Pentagon
- D) Hexagon

2. What is the sum of the interior angles of a triangle?

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

3. A line segment that connects two points on a circle and passes through the center is called a:

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

4. What type of angle measures exactly 90 degrees?

- A) Acute angle
- B) Obtuse angle
- C) Right angle**
- D) Straight angle

5. How many sides does a hexagon have?

- A) 5
- B) 6**
- C) 7
- D) 8

6. What is the name of a four-sided polygon?

- A) Triangle
- B) Pentagon
- C) Hexagon
- D) Quadrilateral**

7. A shape with all sides of equal length and all angles equal is called:

- A) Irregular
- B) Asymmetrical
- C) Regular**
- D) Oblique

8. Parallel lines are lines that:

- A) Cross each other at one point
- B) Never intersect**
- C) Form a right angle
- D) Are curved

9. What is the geometric term for a point where two or more lines or edges meet?

- A) Face
- B) Edge
- C) Vertex**
- D) Side

10. An angle that measures less than 90 degrees is called an:

- A) Acute angle**
- B) Obtuse angle
- C) Right angle
- D) Reflex angle

11. A closed shape with only curves and no straight sides is a:

- A) Polygon
- B) Circle**
- C) Rectangle
- D) Square

12. What is the name of a polygon with five sides?

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

13. The distance from the center of a circle to any point on its edge is called the:

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

14. A triangle with all three sides of equal length is called an:

- A) Isosceles triangle
- B) Scalene triangle

C) Equilateral triangle

- D) Right triangle

15. A shape with six sides is called a:

- A) Pentagon
- B) Heptagon
- C) Octagon

D) Hexagon