

Basic Geometry Fundamentals

Mathematics · Answer Key · 8 Questions

1. What is the most basic building block of geometry, representing an exact location in space?

- A) A line
- B) A plane
- C) A point**
- D) A ray

2. Which geometric figure extends infinitely in two opposite directions and has no thickness?

- A) A segment
- B) A ray
- C) A line**
- D) A curve

3. An angle that measures exactly 90 degrees is called what type of angle?

- A) An acute angle
- B) An obtuse angle
- C) A right angle**
- D) A straight angle

4. How many equal sides does a square have?

- A) Two
- B) Three
- C) Four**
- D) Five

5. In a circle, what is the straight line segment that passes through the center and connects two points on the circumference?

- A) A radius
- B) A chord
- C) An arc
- D) A diameter**

6. What type of lines never intersect and remain the same distance apart?

- A) Intersecting lines
- B) Perpendicular lines
- C) Parallel lines**
- D) Skew lines

7. A polygon with three straight sides and three angles is known as what?

- A) A square
- B) A rectangle
- C) A triangle**
- D) A pentagon

8. A three-dimensional shape with six identical square faces is called a what?

- A) A sphere
- B) A cylinder
- C) A pyramid
- D) A cube**