

Middle School Geometry Fundamentals

Geometry · Practice Test · 25 Questions

1. What is the name for a four-sided shape with four right angles and four equal sides?

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

2. How many sides does a pentagon have?

- A) 4
- B) 5
- C) 6
- D) 7

3. What is the name of an angle that measures exactly 90 degrees?

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

4. What is the sum of the interior angles in a triangle?

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

5. What is the name for two lines that intersect at a 90-degree angle?

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

6. A shape with 6 sides is called a:

- A) Heptagon
- B) Octagon
- C) Hexagon
- D) Nonagon

7. What is the name for an angle that measures less than 90 degrees?

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

8. How many faces does a cube have?

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

9. What is the name for a three-sided shape?

- A) Quadrilateral
- B) Pentagon
- C) Triangle
- D) Circle

10. A line segment that connects two points on a circle is called a:

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

11. What is the name for an angle that measures more than 90 degrees but less than 180 degrees?

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

12. How many vertices does a rectangular prism have?

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

13. What is the perimeter of a square with side length 5 cm?

- A) 10 cm
- B) 15 cm
- C) 20 cm
- D) 25 cm

14. What is the name for a shape with no straight sides and no corners?

- A) Square
- B) Triangle
- C) Circle
- D) Rectangle

15. How many edges does a cylinder have?

- A) 0
- B) 1
- C) 2
- D) 3

16. What is the name for a line that extends infinitely in both directions?

- A) Line segment
- B) Ray
- C) Line
- D) Vector

17. What is the area of a rectangle with a length of 8 cm and a width of 3 cm?

- A) 11 sq cm
- B) 24 sq cm
- C) 26 sq cm
- D) 48 sq cm

18. A shape with 8 sides is called a:

- A) Heptagon
- B) Octagon
- C) Nonagon
- D) Decagon

19. What is the name for two lines that never intersect, no matter how far they are extended?

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

20. How many degrees are in a straight angle?

- A) 0 degrees
- B) 90 degrees
- C) 180 degrees
- D) 360 degrees

21. What is the name for a 3D shape with all faces being flat surfaces that are polygons?

- A) Sphere
- B) Cone
- C) Cylinder
- D) Polyhedron

22. A shape with 7 sides is called a:

- A) Hexagon
- B) Octagon
- C) Heptagon
- D) Nonagon

23. What is the radius of a circle if its diameter is 10 cm?

- A) 2.5 cm
- B) 5 cm
- C) 20 cm
- D) 10 cm

24. What is the sum of the angles around a point?

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

25. How many vertices does a triangular pyramid (tetrahedron) have?

- A) 3
- B) 4
- C) 5
- D) 6