

Middle School Geometry Fundamentals

Geometry · Answer Key · 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