

Fundamentals of Basic Geometry

Geometry · Answer Key · 25 Questions

1. What is the sum of the interior angles of a quadrilateral?

- A) 180 degrees
- B) 270 degrees
- C) 360 degrees**
- D) 540 degrees

2. A polygon with seven sides is known by which name?

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

3. In a right-angled triangle, what is the side opposite the right angle called?

- A) Adjacent
- B) Tangent
- C) Hypotenuse**
- D) Vertex

4. What is the term for an angle that measures exactly 180 degrees?

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

5. How many degrees are in a full circle?

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

6. A triangle with all three sides of different lengths is called what?

- A) Equilateral
- B) Isosceles
- C) Scalene**
- D) Right

7. Which geometric shape has exactly four equal sides and four right angles?

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

8. What is the line segment that connects two points on a circle and passes through the centre called?

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

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

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

10. Which type of angle is greater than 90 degrees but less than 180 degrees?

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

11. What is the perimeter of a circle called?

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

12. A polygon with five sides is called a:

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

13. Two angles that add up to 90 degrees are known as:

- A) Supplementary
- B) Vertical
- C) Adjacent
- D) Complementary**

14. What is the point where two sides of a polygon meet called?

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

15. A triangle that has two equal sides is called:

- A) Scalene
- B) Equilateral
- C) Isosceles**
- D) Right

16. Which 3D shape has six equal square faces?

- A) Rectangular prism
- B) Cylinder
- C) Sphere
- D) Cube**

17. What is the distance from the centre of a circle to any point on its edge called?

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

18. How many faces does a triangular pyramid (tetrahedron) have?

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

19. What do you call an angle that is less than 90 degrees?

- A) Acute**
- B) Obtuse
- C) Straight
- D) Reflex

20. A parallelogram with four equal sides but not necessarily right angles is called a:

- A) Rectangle
- B) Trapezoid
- C) Rhombus**
- D) Kite

21. What is the name of the polygon with eight sides?

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

22. Two angles that add up to 180 degrees are called:

- A) Complementary
- B) Supplementary**
- C) Vertical
- D) Adjacent

23. Which term describes lines that are always the same distance apart and never meet?

- A) Perpendicular
- B) Intersecting
- C) Parallel**
- D) Transversal

24. What is the geometric term for a flat, two-dimensional surface that extends infinitely?

- A) Line
- B) Ray
- C) Plane**
- D) Segment

25. How many vertices does a cube have?

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