

Introduction to Angles and Basic Trigonometry Concepts

Trigonometry · Answer Key · 25 Questions

1. What is the name for a turn that is exactly half of a full circle?

- A) A full turn
- B) A straight angle**
- C) A right angle
- D) A reflex angle

2. How many degrees are in a complete circle?

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

3. What type of angle is exactly 90 degrees?

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

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

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

5. An angle that measures more than 90 degrees but less than 180 degrees is called:

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

6. When two lines meet and form a 90-degree angle, they are said to be:

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

7. If you draw a line that cuts across two other lines, what are the two other lines called?

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

8. What shape has three sides and three angles?

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

9. In a triangle, the sum of all three angles is always:

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

10. What do we call a line that extends endlessly in one direction from a starting point?

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

11. Which angle is often seen in the corner of a square or a book?

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

12. A shape with four equal sides and four right angles is a:

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

13. If you face north and then turn exactly 180 degrees, which direction will you be facing?

- A) East
- B) South**
- C) West
- D) North-East

14. Which of these angles is the smallest type of angle?

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

15. What is the term for a shape with no corners and no straight sides?

- A) Square
- B) Triangle
- C) Circle**
- D) Hexagon

16. If you divide a circle into four equal parts, the angle at the center of each part is:

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

17. Which of the following is a unit of measurement for angles?

- A) Metres
- B) Kilograms
- C) Degrees**
- D) Litres

18. An angle formed by two lines that are parallel and do not meet is:

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

19. What shape has exactly two parallel sides, but the other two sides are not parallel?

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

20. If you have a clock and the hour hand moves from the '3' to the '6', what kind of angle has been formed?

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

21. What do we call the point where two lines meet to form an angle?

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

22. A line that goes straight across, like the horizon, forms an angle of:

- A) 90 degrees
- B) 180 degrees**
- C) 270 degrees
- D) 0 degrees

23. Which of these is a measure of an angle that is larger than a right angle?

- A) 30 degrees
- B) 60 degrees
- C) 120 degrees**
- D) 90 degrees

24. What is the name for a turn of exactly 90 degrees?

- A) A full turn
- B) A half turn
- C) A quarter turn**
- D) A three-quarter turn

25. If you have a shape with 5 sides, what is it called?

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