

# Trigonometry Basics for Young Learners

Trigonometry · Practice Test · 15 Questions

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**1. What is the name of the longest side in a right-angled triangle?**

- A) Hypotenuse
- B) Adjacent
- C) Opposite
- D) Base

**2. In a right-angled triangle, what is the sum of the two smaller angles?**

- A) 45 degrees
- B) 90 degrees
- C) 180 degrees
- D) 360 degrees

**3. Which trigonometric function represents the ratio of the side opposite an angle to the hypotenuse?**

- A) Cosine
- B) Tangent
- C) Sine
- D) Secant

**4. What is the total sum of the internal angles of any triangle?**

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

**5. If one angle of a right-angled triangle is 30 degrees, what is the measure of the other non-right angle?**

- A) 30 degrees
- B) 45 degrees
- C) 60 degrees
- D) 90 degrees

**6. The study of trigonometry primarily focuses on the relationship between which two properties of triangles?**

- A) Area and perimeter
- B) Sides and angles
- C) Height and width
- D) Color and shape

**7. What is the name of a triangle where all three sides have different lengths?**

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

**8. Which trigonometric ratio is defined as the side adjacent to an angle divided by the hypotenuse?**

- A) Cosine
- B) Sine
- C) Tangent
- D) Cotangent

**9. A triangle that has one angle measuring exactly 90 degrees is known as what?**

- A) Acute triangle
- B) Obtuse triangle
- C) Right-angled triangle
- D) Equilateral triangle

**10. What is the name of the side that is next to a specific angle in a right-angled triangle?**

- A) Hypotenuse
- B) Opposite
- C) Adjacent
- D) Vertical

**11. In trigonometry, what does the 'Tangent' ratio compare in a right triangle?**

- A) Opposite side to adjacent side
- B) Hypotenuse to opposite side
- C) Adjacent side to hypotenuse
- D) Hypotenuse to base

**12. How many sides does a triangle have?**

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

**13. Which shape is the foundation for all trigonometric calculations?**

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

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

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

**15. If a triangle has two sides of equal length, what is it called?**

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