

# Trigonometry Basics for Young Learners

Trigonometry · Answer Key · 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