Essential High School Mathematics

Mathematics · Answer Key · 10 Questions

1. What constant represents the ratio of a circle's circumference to its diameter?

A) Tau
B) Pi
C) Phi
D) Euler's number

2. In the algebraic expression 3x + 5, what is the correct term for the number 3?

A) Variable
B) Constant
C) Coefficient
D) Exponent

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

A) Hypotenuse
B) Adjacent
C) Opposite
D) Radius

4. What is the smallest prime number?

A) 0
B) 1
C) 2
D) 3

5. What is the sum of the interior angles in any triangle?

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

6. In statistics, what is the middle value when a set of numbers is ordered from smallest to largest?

A) Mean
B) Mode
C) Range
D) Median

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7. What is the point (0, 0) where the x-axis and y-axis intersect on a Cartesian plane called?

A) Vertex
B) Origin
C) Intercept
D) Focus

8. Any non-zero number raised to the power of zero is always equal to what value?

A) 0
B) 1
C) The number itself
D) Undefined

9. What is the theoretical probability of landing on 'heads' when flipping a fair two-sided coin?

A) 0.25
B) 0.5
C) 0.75
D) 1.0

10. In trigonometry, which ratio is defined as the length of the opposite side divided by the hypotenuse?

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

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