

Essential High School Mathematics

Mathematics · Practice Test · 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

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