

Pre-Algebra Fundamental Knowledge

Mathematics · Answer Key · 12 Questions

1. What is the mathematical term for a number that can only be divided by 1 and itself?

- A) Composite number
- B) Prime number**
- C) Integer
- D) Rational number

2. In the order of operations (PEMDAS/BODMAS), which operation is performed first?

- A) Addition
- B) Multiplication
- C) Parentheses/Brackets**
- D) Exponents/Orders

3. What is the value of any non-zero number raised to the power of 0?

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

4. What is the reciprocal of the fraction $\frac{3}{4}$?

- A) $-\frac{3}{4}$
- B) $\frac{4}{3}$**
- C) $\frac{3}{-4}$
- D) 1

5. Which property states that $a(b + c) = ab + ac$?

- A) Commutative property
- B) Associative property
- C) Distributive property**
- D) Identity property

6. What is the result of a negative number multiplied by another negative number?

- A) A negative number
- B) Zero
- C) A positive number**
- D) An imaginary number

7. What is the formal name for the horizontal axis on a Cartesian coordinate plane?

- A) Y-axis
- B) Z-axis
- C) X-axis**
- D) Origin

8. What is the name for the number that tells how many times a base is used as a factor?

- A) Coefficient
- B) Exponent**
- C) Product
- D) Sum

9. What is the additive inverse of 5?

- A) -5**
- B) $\frac{1}{5}$
- C) 0
- D) -1

10. A polygon with exactly five sides is known as what?

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

11. What is the value of Pi (?) rounded to two decimal places?

- A) 3.12
- B) 3.14**
- C) 3.16
- D) 3.18

12. What is the term for a mathematical statement that asserts the equality of two expressions?

- A) Variable
- B) Equation**
- C) Inequality
- D) Constant