

# Essential Concepts of Multiplication & Division

Mathematics · Answer Key · 8 Questions

---

**1. What property states that multiplying a sum by a number is the same as multiplying each addend by the number and then adding the products?**

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

**2. Which mathematical operation is the inverse of multiplication?**

- A) Addition
- B) Subtraction
- C) Division**
- D) Exponentiation

**3. What is the result when any non-zero number is divided by zero?**

- A) Zero
- B) One
- C) Undefined**
- D) The number itself

**4. According to the identity property of multiplication, what number can be multiplied by any real number without changing the value of that number?**

- A) Zero
- B) One**
- C) Negative one
- D) Ten

**5. When two negative integers are multiplied together, what is the sign of their product?**

- A) Always negative
- B) Always positive**
- C) Depends on the magnitude
- D) Undefined

**6. In the standard order of operations, how are multiplication and division performed relative to each other when they appear in the same expression?**

- A) Division before multiplication
- B) Multiplication before division
- C) From left to right**
- D) Based on parentheses

**7. What unique process expresses a composite number as a product of its prime factors?**

- A) Factoring by grouping
- B) Prime factorization**
- C) Least common multiple
- D) Greatest common divisor

**8. For any non-zero number 'x', what number, when multiplied by 'x', results in a product of 1?**

- A) Zero
- B) Negative 'x'
- C) The reciprocal of 'x'**
- D) The square root of 'x'