# Structure of Algebra

**MULTIPLE CHOICE.  Choose the one alternative that best completes the statement or answers the question.**

1) $(4.4 + 9.55) + 8.72 = 4.4 + (9.55 + 8.72)$                                                     1) _____
   - A) Commutative property of addition
   - B) Additive inverse
   - C) Additive identity
   - D) Associative property of addition

2) $\left(-\dfrac{1}{7}\right) \cdot 1 = -\dfrac{1}{7}$                                                     2) _____
   - A) Multiplicative inverse
   - B) Commutative property of multiplication
   - C) Multiplicative identity
   - D) Distributive property

3) $(2 + 7) + 1 = (7 + 2) + 1$                                                     3) _____
   - A) Additive inverse
   - B) Associative property of addition
   - C) Commutative property of addition
   - D) Additive identity

4) $3 + 7 = 7 + 3$                                                     4) _____
   - A) Additive identity
   - B) Associative property of addition
   - C) Additive inverse
   - D) Commutative property of addition

5) $0.6 + 0 = 0.6$                                                     5) _____
   - A) Additive inverse
   - B) Associative property of addition
   - C) Commutative property of addition
   - D) Additive identity

6) $6 + (-6) = 0$                                                     6) _____
   - A) Commutative property of addition
   - B) Additive inverse
   - C) Additive identity
   - D) Associative property of addition

7) $(6.3)(7.5) = (7.5)(6.3)$                                                     7) _____
   - A) Associative property of multiplication
   - B) Distributive property
   - C) Commutative property of multiplication
   - D) Multiplicative identity

8) $\left(\dfrac{1}{3}\right) \cdot 0 = 0$                                                     8) _____
   - A) Commutative property of multiplication
   - B) Multiplicative property of 0
   - C) Multiplicative identity
   - D) Distributive property

9) $-(3 + 2) = -3 - 2$                                                     9) _____
   - A) Multiplicative identity
   - B) Commutative property of multiplication
   - C) Distributive property
   - D) Associative property of multiplication

10) $(5 \cdot 4) \cdot 2 = 5 \cdot (4 \cdot 2)$                                                     10) _____
   - A) Associative property of multiplication
   - B) Commutative property of multiplication
   - C) Multiplicative identity
   - D) Distributive property

11) $9(9 + 4) = 9 \cdot 9 + 9 \cdot 4$                                                     11) _____
   - A) Associative property of multiplication
   - B) Multiplicative identity
   - C) Distributive property
   - D) Commutative property of multiplication

1) D
2) C
3) C
4) D
5) D
6) B
7) C
8) B
9) C
10) A
11) C