Structure of Algebra

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

Indicate whether the equation illustrates the additive identity, commutative property, associative property, distributive property, additive inverse, or multiplicative inverse.

1) $(7 + 2) + 8 = (2 + 7) + 8$ 1) _____
   A) Additive inverse   B) Commutative property of addition
   C) Associative property of addition   D) Additive identity

2) $(5.4 + 2.55) + 9.72 = 5.4 + (2.55 + 9.72)$ 2) _____
   A) Associative property of addition   B) Additive inverse
   C) Commutative property of addition   D) Additive identity

3) $5 + (-5) = 0$ 3) _____
   A) Commutative property of addition   B) Associative property of addition
   C) Additive identity   D) Additive inverse

4) $4 + 8 = 8 + 4$ 4) _____
   A) Additive identity   B) Commutative property of addition
   C) Additive inverse   D) Associative property of addition

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

6) $\left(-\dfrac{1}{3}\right) \cdot 1 = -\dfrac{1}{3}$ 6) _____
   A) Multiplicative inverse   B) Distributive property
   C) Commutative property of multiplication   D) Multiplicative identity

7) $\left(\dfrac{1}{7}\right) \cdot 0 = 0$ 7) _____
   A) Commutative property of multiplication   B) Distributive property
   C) Multiplicative property of 0   D) Multiplicative identity

8) $(3 \cdot 1) \cdot 5 = 3 \cdot (1 \cdot 5)$ 8) _____
   A) Commutative property of multiplication   B) Associative property of multiplication
   C) Multiplicative identity   D) Distributive property

9) $5(3 + 2) = 5 \cdot 3 + 5 \cdot 2$ 9) _____
   A) Commutative property of multiplication   B) Distributive property
   C) Associative property of multiplication   D) Multiplicative identity

10) $(6.3)(4.5) = (4.5)(6.3)$ 10) _____
   A) Associative property of multiplication   B) Commutative property of multiplication
   C) Multiplicative identity   D) Distributive property

11) $-(3 + 8) = -3 - 8$ 11) _____
   A) Commutative property of multiplication   B) Associative property of multiplication
   C) Multiplicative identity   D) Distributive property

Math Connections
Valencia College

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