Name: _____

A.N.1: Identifying Properties: Identify and apply the properties of real numbers (closure, commutative, associative, distributive, identity, inverse)

1 Which property is illustrated by the equation $ax + ay = a(x + y)$?
1) associative
2) commutative
3) distributive
4) identity

2 The statement $2 + 0 = 2$ is an example of the use of which property of real numbers?
1) associative
2) additive identity
3) additive inverse
4) distributive

3 Tori computes the value of $8 \cdot 95$ in her head by thinking $8(100 - 5) = 8 \times 100 - 8 \times 5$. Which number property is she using?
1) associative
2) distributive
3) commutative
4) closure

4 Which property of real numbers is illustrated by the equation $-\sqrt{3} + \sqrt{3} = 0$?
1) additive identity
2) commutative property of addition
3) associative property of addition
4) additive inverse

5 Which property of real numbers is illustrated by the equation $52 + (27 + 36) = (52 + 27) + 36$?
1) commutative property
2) associative property
3) distributive property
4) identity property of addition

6 The equation ✻(Δ + ❤) = ✻Δ + ✻❤ is an example of the
1) associative law
2) commutative law
3) distributive law
4) transitive law

7 While solving the equation $4(x + 2) = 28$, Becca wrote $4x + 8 = 28$. Which property did she use?
1) distributive
2) associative
3) commutative
4) identity

8 If M and A represent integers, $M + A = A + M$ is an example of which property?
1) commutative
2) associative
3) distributive
4) closure