A.REI.A.1: Identifying Properties 2

1 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

2 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

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

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

5 Which property is illustrated by the equation $\frac{3}{2}x + 0 = \frac{3}{2}x$?
1) commutative property of addition
2) distributive property
3) additive inverse property
4) additive identity property

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

7 Which property is represented by the statement $\frac{1}{2}(6a + 4b) = 3a + 2b$?
1) commutative
2) distributive
3) associative
4) identity

8 Which property is illustrated by the equation $6 + (4 + x) = 6 + (x + 4)$?
1) associative property of addition
2) associative property of multiplication
3) distributive property
4) commutative property of addition

9 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

10 Which property is illustrated by the equation $4x(2x - 1) = 8x^2 - 4x$?
1) associative
2) commutative
3) distributive
4) identity

11 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

12 The equation $3(4x) = (4x)3$ illustrates which property?
1) commutative
2) associative
3) distributive
4) multiplicative inverse

13 The equation $(x - 6)(8 + x) = (x - 6) \cdot (8) + (x - 6) \cdot (x)$ illustrates the use of which property?
1) distributive property
2) associative property of addition
3) associative property of multiplication
4) commutative property of multiplication

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Answer Section

1	ANS: 2	REF: 060306a
2	ANS: 4	REF: 060413a
3	ANS: 3	REF: 080504a
4	ANS: 1	REF: 010720a
5	ANS: 4	REF: 060714a
6	ANS: 3	REF: fall0705ia
7	ANS: 2	REF: 010812a
8	ANS: 4	REF: 060827a
9	ANS: 2	REF: 080802ia
10	ANS: 3	REF: 080806a
11	ANS: 2	REF: 010924a
12	ANS: 1	REF: 081319ia
13	ANS: 1	REF: 061526ia