Name : _____ Score : _____

Teacher : _____ Date : _____

Working with the Properties of Mathematics

1) Which equation shows the Commutative Property of Multiplication ?

A. 3 x 5 = 5 x 3 **B.** 2 x 1 = 2 _____

C. 9 x 4 - 8 x 4 = (9 - 8) x 7 **D.** 7 x 3 = 7 + 7 + 7

2) Which Property of Multiplication is shown ? (5 + 7) x 6 = 5 x 6 + 7 x 6

A. Distributive Property **B.** Associative Property _____

C. Identity Property **D.** Commutative Property

3) Which property is used in the following expression ? 5(6 + 4) = 30 + 20

A. Distributive Property **B.** Associative Property of Multiplication _____

C. Commutative Property of Addition **D.** Associative Property of Addition

4) Simplify this expression : 2(y + z)

A. 2z + y **B.** 2y + 2z _____

C. 2y + z **D.** 2yz

5) Which is an example of Identity Property of Addition ?

A. 3 + 9 = 9 + 3 **B.** (9 + 2) + 4 = 9 + (2 + 4) _____

C. 7 + 0 = 7 **D.** 5 x 1 = 5

6) Which is an example of Associative Property of Addition ?

A. 5 + 0 = 5 **B.** 9 + (-9) = 0 _____

C. (6 + 4) + 3 = 6 + (4 + 3) **D.** 8 + 6 = 6 + 8

7) Which property is used in the following expression ? (a x b) x c = a x (b x c)

A. Associative Property of Addition **B.** Distributive Property _____

C. Commutative Property of Addition **D.** Associative Property of Multiplication

8) Which property of addition is used in the following ? (3 + 4) + 5 = 3 + (4 + 5)

A. Distributive Property **B.** Associative Property _____

C. Commutative Property **D.** Identity Property

9) Which Property of Addition does 7 + 0 = 7 illustrate ?

A. Zero Property **B.** Commutative Property _____

C. Distributive Property **D.** Identity Property

10) Which property is used in the following ? 9 x (2 + 8) = 9 x 2 + 9 x 8

A. Associative Property **B.** None of the above _____

C. Distributive Property **D.** Commutative Property

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Name : _____ Score : _____

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Working with the Properties of Mathematics

11) Which of the following is an example of Commutative Property of Addition ?

A. 7 + 9 = 9 + 7 **B.** 3 x 1 = 3 _____

C. (9 + 8) + 6 = 9 + (8 + 6) **D.** 2 + 5 = 4 + 2

12) Which of the following does not show the Commutative Property ?

A. 4 + y = y + 4 **B.** xy - 5 = xy _____

C. yx = xy **D.** x + y = y + x

13) Which property is used in the following expression ? (3 x 7) x 2 = 7 x (2 x 3)

A. Associative Property of Multiplication **B.** Associative Property of Addition _____

C. Distributive Property of Multiplication **D.** Commutative Property of Addition

14) Which of the following does not show the Commutative Property of Addition ?

A. a + b = b + a **B.** 8 + x = x + 8 _____

C. ab = ba **D.** 3x + 4y = 4y + 3x

15) Which property would you use to simplify the following expression ? 6(y + 3)

A. Commutative Property **B.** Multiplication Property of Zero _____

C. Associative Property **D.** Distributive Property

16) Which operation will not change the value of any nonzero number ?

A. Multiplying by One **B.** Adding One _____

C. Multiplying by Zero **D.** Dividing by Zero

17) Which equation shows the Identity Property of Multiplication ?

A. a x 1 **B.** a + a + a = 3 x a _____

C. (a + b) + 2 = a + (2 + b) **D.** a(b + c) = ab + ac

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