

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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### Working with the Properties of Mathematics

- 1) Which property is used in the following expression ?  $3(6 + 5) = 18 + 15$
- A.** Associative Property of Multiplication      **B.** Commutative Property of Addition \_\_\_\_\_  
**C.** Associative Property of Addition          **D.** Distributive Property
- 2) Which property of addition is used in the following ?  $(7 + 9) + 5 = 7 + (9 + 5)$
- A.** Distributive Property                              **B.** Commutative Property \_\_\_\_\_  
**C.** Associative Property                              **D.** Identity Property
- 3) Which is an example of Identity Property of Addition ?
- A.**  $9 + 7 = 7 + 9$                                       **B.**  $(7 + 8) + 6 = 7 + (8 + 6)$  \_\_\_\_\_  
**C.**  $4 + 0 = 4$                                           **D.**  $2 \times 1 = 2$
- 4) Which of the following does not show the Commutative Property of Addition ?
- A.**  $a + b = b + a$                                       **B.**  $3 + x = x + 3$  \_\_\_\_\_  
**C.**  $ab = ba$                                               **D.**  $3x + 4y = 4y + 3x$
- 5) Which operation will not change the value of any nonzero number ?
- A.** Dividing by Zero                                      **B.** Multiplying by One \_\_\_\_\_  
**C.** Adding One                                              **D.** Multiplying by Zero
- 6) Which Property of Addition does  $3 + 0 = 3$  illustrate ?
- A.** Zero Property                                              **B.** Identity Property \_\_\_\_\_  
**C.** Commutative Property                              **D.** Distributive Property
- 7) Which of the following does not show the Commutative Property ?
- A.**  $xy - 9 = xy$                                               **B.**  $yx = xy$  \_\_\_\_\_  
**C.**  $x + y = y + x$                                               **D.**  $3 + y = y + 3$
- 8) Which property is used in the following expression ?  $(4 \times 9) \times 8 = 9 \times (8 \times 4)$
- A.** Associative Property of Addition              **B.** Associative Property of Multiplication \_\_\_\_\_  
**C.** Distributive Property of Multiplication      **D.** Commutative Property of Addition
- 9) Which property is used in the following ?  $3 \times (6 + 8) = 3 \times 6 + 3 \times 8$
- A.** None of the above                                      **B.** Distributive Property \_\_\_\_\_  
**C.** Commutative Property                              **D.** Associative Property
- 10) Which Property of Multiplication is shown ?  $(5 + 8) \times 7 = 5 \times 7 + 8 \times 7$
- A.** Associative Property                                      **B.** Commutative Property \_\_\_\_\_  
**C.** Distributive Property                                      **D.** Identity Property

