

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

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

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

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

### Working with the Properties of Mathematics

- 1) Which Property of Multiplication is shown ?  $(4 + 8) \times 3 = 4 \times 3 + 8 \times 3$
- A. Distributive Property  
B. Associative Property  
C. Commutative Property  
D. Identity Property
- 2) Which property would you use to simplify the following expression ?  $3(y + 5)$
- A. Associative Property  
B. Multiplication Property of Zero  
C. Commutative Property  
D. Distributive Property
- 3) Which Property of Addition does  $5 + 0 = 5$  illustrate ?
- A. Identity Property  
B. Distributive Property  
C. Commutative Property  
D. Zero Property
- 4) Which property is used in the following expression ?  $2(6 + 7) = 12 + 14$
- A. Commutative Property of Addition  
B. Distributive Property  
C. Associative Property of Multiplication  
D. Associative Property of Addition
- 5) Which of the following is an example of Commutative Property of Addition ?
- A.  $4 + 2 = 7 + 4$   
B.  $8 \times 1 = 8$   
C.  $(6 + 3) + 5 = 6 + (3 + 5)$   
D.  $9 + 6 = 6 + 9$
- 6) Which of the following does not show the Commutative Property ?
- A.  $x + y = y + x$   
B.  $yx = xy$   
C.  $2 + y = y + 2$   
D.  $xy - 7 = xy$
- 7) Which equation shows the Identity Property of Multiplication ?
- A.  $a + a + a = 3 \times a$   
B.  $a(b + c) = ab + ac$   
C.  $(a + b) + 8 = a + (8 + b)$   
D.  $a \times 1$
- 8) Which property is used in the following expression ?  $(5 \times 3) \times 4 = 3 \times (4 \times 5)$
- A. Associative Property of Multiplication  
B. Associative Property of Addition  
C. Commutative Property of Addition  
D. Distributive Property of Multiplication
- 9) Which operation will not change the value of any nonzero number ?
- A. Multiplying by Zero  
B. Adding One  
C. Dividing by Zero  
D. Multiplying by One
- 10) Which is an example of Associative Property of Addition ?
- A.  $(4 + 7) + 6 = 4 + (7 + 6)$   
B.  $2 + 0 = 2$   
C.  $8 + (-8) = 0$   
D.  $3 + 4 = 4 + 3$