

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

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

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

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

## Working with the Properties of Mathematics

- 1 ) Which is an example of Identity Property of Addition ?
- A.  $2 + 9 = 9 + 2$  \_\_\_\_\_
- B.  $(9 + 6) + 5 = 9 + (6 + 5)$  \_\_\_\_\_
- C.  $8 \times 1 = 8$  \_\_\_\_\_
- D.  $7 + 0 = 7$  \_\_\_\_\_
- 2 ) 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 \_\_\_\_\_
- 3 ) Which of the following does not show the Commutative Property ?
- A.  $yx = xy$  \_\_\_\_\_
- B.  $x + y = y + x$  \_\_\_\_\_
- C.  $xy - 6 = xy$  \_\_\_\_\_
- D.  $3 + y = y + 3$  \_\_\_\_\_
- 4 ) Which property would you use to simplify the following expression ?  $7(y + 9)$
- A. Distributive Property \_\_\_\_\_
- B. Commutative Property \_\_\_\_\_
- C. Associative Property \_\_\_\_\_
- D. Multiplication Property of Zero \_\_\_\_\_
- 5 ) Which equation shows the Commutative Property of Multiplication ?
- A.  $9 \times 3 = 9 + 9 + 9$  \_\_\_\_\_
- B.  $3 \times 1 = 3$  \_\_\_\_\_
- C.  $4 \times 8 = 8 \times 4$  \_\_\_\_\_
- D.  $2 \times 5 - 6 \times 5 = (2 - 6) \times 9$  \_\_\_\_\_
- 6 ) Which property of addition is used in the following ?  $(7 + 8) + 4 = 7 + (8 + 4)$
- A. Commutative Property \_\_\_\_\_
- B. Distributive Property \_\_\_\_\_
- C. Associative Property \_\_\_\_\_
- D. Identity Property \_\_\_\_\_
- 7 ) Which is an example of Associative Property of Addition ?
- A.  $(5 + 7) + 8 = 5 + (7 + 8)$  \_\_\_\_\_
- B.  $2 + 5 = 5 + 2$  \_\_\_\_\_
- C.  $9 + (-9) = 0$  \_\_\_\_\_
- D.  $6 + 0 = 6$  \_\_\_\_\_
- 8 ) Which of the following does not show the Commutative Property of Addition ?
- A.  $3x + 4y = 4y + 3x$  \_\_\_\_\_
- B.  $a + b = b + a$  \_\_\_\_\_
- C.  $ab = ba$  \_\_\_\_\_
- D.  $6 + x = x + 6$  \_\_\_\_\_
- 9 ) Which property is used in the following expression ?  $(a \times b) \times c = a \times (b \times c)$
- A. Commutative Property of Addition \_\_\_\_\_
- B. Associative Property of Addition \_\_\_\_\_
- C. Distributive Property \_\_\_\_\_
- D. Associative Property of Multiplication \_\_\_\_\_
- 10 ) Simplify this expression :  $5(y + z)$
- A.  $5y + 5z$  \_\_\_\_\_
- B.  $5z + y$  \_\_\_\_\_
- C.  $5y + z$  \_\_\_\_\_
- D.  $5yz$  \_\_\_\_\_



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- 11 ) Which property is used in the following expression ?  $(7 \times 2) \times 6 = 2 \times (6 \times 7)$
- A. Distributive Property of Multiplication      B. Associative Property of Addition \_\_\_\_\_  
C. Commutative Property of Addition      D. Associative Property of Multiplication \_\_\_\_\_
- 12 ) Which property is used in the following ?  $5 \times (9 + 6) = 5 \times 9 + 5 \times 6$
- A. Distributive Property      B. None of the above \_\_\_\_\_  
C. Commutative Property      D. Associative Property \_\_\_\_\_
- 13 ) Which equation shows the Identity Property of Multiplication ?
- A.  $a(b + c) = ab + ac$       B.  $a \times 1$  \_\_\_\_\_  
C.  $a + a + a = 3 \times a$       D.  $(a + b) + 3 = a + (3 + b)$  \_\_\_\_\_
- 14 ) Which Property of Addition does  $4 + 0 = 4$  illustrate ?
- A. Zero Property      B. Commutative Property \_\_\_\_\_  
C. Distributive Property      D. Identity Property \_\_\_\_\_
- 15 ) Which of the following is an example of Commutative Property of Addition ?
- A.  $5 \times 1 = 5$       B.  $(3 + 9) + 2 = 3 + (9 + 2)$  \_\_\_\_\_  
C.  $4 + 3 = 3 + 4$       D.  $7 + 6 = 8 + 7$  \_\_\_\_\_
- 16 ) Which Property of Multiplication is shown ?  $(4 + 9) \times 6 = 4 \times 6 + 9 \times 6$
- A. Commutative Property      B. Identity Property \_\_\_\_\_  
C. Distributive Property      D. Associative Property \_\_\_\_\_
- 17 ) Which property is used in the following expression ?  $3(8 + 4) = 24 + 12$
- A. Commutative Property of Addition      B. Associative Property of Addition \_\_\_\_\_  
C. Distributive Property      D. Associative Property of Multiplication \_\_\_\_\_



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- 2 ) Which operation will not change the value of any nonzero number ?  
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A.  $5y + 5z$   
B.  $5z + y$   
C.  $5y + z$   
D.  $5yz$   
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