

Name : _____

Score : _____

Teacher : _____

Date : _____

Working with the Properties of Mathematics

1) Which equation shows the Commutative Property of Multiplication ?

A. $3 \times 5 = 5 \times 3$ B. $2 \times 1 = 2$
C. $9 \times 4 - 8 \times 4 = (9 - 8) \times 4$ D. $7 \times 3 = 7 + 7 + 7$

2) Which Property of Multiplication is shown ? $(5 + 7) \times 6 = 5 \times 6 + 7 \times 6$

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. $5 \times 1 = 5$

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 ? $(a \times b) \times c = a \times (b \times c)$

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 ? $9 \times (2 + 8) = 9 \times 2 + 9 \times 8$

A. Associative Property B. None of the above
C. Distributive Property D. Commutative Property



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

A. $7 + 9 = 9 + 7$ B. $3 \times 1 = 3$
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 ? $(3 \times 7) \times 2 = 7 \times (2 \times 3)$

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. $a \times 1$ B. $a + a + a = 3 \times a$
C. $(a + b) + 2 = a + (2 + b)$ D. $a(b + c) = ab + ac$