

Name : _____

Score : _____

Teacher : _____

Date : _____

Working with the Properties of Mathematics

- 1) Which is an example of Associative Property of Addition ?
- A. $2 + (-2) = 0$ _____
- B. $4 + 8 = 8 + 4$ _____
- C. $7 + 0 = 7$ _____
- D. $(8 + 3) + 5 = 8 + (3 + 5)$ _____
- 2) Simplify this expression : $4(y + z)$
- A. $4y + 4z$ _____
- B. $4z + y$ _____
- C. $4y + z$ _____
- D. $4yz$ _____
- 3) Which property is used in the following ? $6 \times (4 + 5) = 6 \times 4 + 6 \times 5$
- A. None of the above _____
- B. Associative Property _____
- C. Distributive Property _____
- D. Commutative Property _____
- 4) Which of the following does not show the Commutative Property ?
- A. $xy - 2 = xy$ _____
- B. $7 + y = y + 7$ _____
- C. $x + y = y + x$ _____
- D. $yx = xy$ _____
- 5) Which property would you use to simplify the following expression ? $6(y + 9)$
- A. Associative Property _____
- B. Commutative Property _____
- C. Distributive Property _____
- D. Multiplication Property of Zero _____
- 6) Which property is used in the following expression ? $8(6 + 9) = 48 + 72$
- A. Distributive Property _____
- B. Associative Property of Multiplication _____
- C. Associative Property of Addition _____
- D. Commutative Property of Addition _____
- 7) Which of the following does not show the Commutative Property of Addition ?
- A. $7 + x = x + 7$ _____
- B. $a + b = b + a$ _____
- C. $3x + 4y = 4y + 3x$ _____
- D. $ab = ba$ _____
- 8) Which Property of Multiplication is shown ? $(2 + 5) \times 3 = 2 \times 3 + 5 \times 3$
- A. Identity Property _____
- B. Commutative Property _____
- C. Associative Property _____
- D. Distributive Property _____
- 9) Which property is represented in the following statement ? If $a = b$, then $b = a$.
- A. Symmetric Property of Equality _____
- B. Property of Equality for Subtraction _____
- C. Reflexive Property of Equality _____
- D. Transitive Property of Equality _____
- 10) Which property is used in the following expression ? $(4 \times 3) \times 5 = 3 \times (5 \times 4)$
- A. Associative Property of Addition _____
- B. Distributive Property of Multiplication _____
- C. Commutative Property of Addition _____
- D. Associative Property of Multiplication _____



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- 11) Which property is represented in the following statement ? If $a = b$, then $a \times c = b \times c$
- A. Transitive Property of Equality
B. Property of Equality for Multiplication
C. Reflexive Property of Equality
D. Symmetric Property of Equality
- 12) Which property of addition is used in the following ? $(2 + 7) + 9 = 2 + (7 + 9)$
- A. Associative Property
B. Identity Property
C. Distributive Property
D. Commutative Property
- 13) Which property is represented in the following statement ? If $a = b$, then $a - c = b - c$
- A. Property of Equality for Subtraction
B. Symmetric Property of Equality
C. Transitive Property of Equality
D. Reflexive Property of Equality
- 14) Which property is represented in the following statement ? If $a = b$, then $a / c = b / c$
- A. Property of Equality for Division
B. Reflexive Property of Equality
C. Symmetric Property of Equality
D. Transitive Property of Equality
- 15) Which property is used in the following expression ? $(a \times b) \times c = a \times (b \times c)$
- A. Distributive Property
B. Associative Property of Multiplication
C. Commutative Property of Addition
D. Associative Property of Addition
- 16) Which equation shows the Commutative Property of Multiplication ?
- A. $5 \times 1 = 5$
B. $6 \times 3 = 6 + 6 + 6$
C. $9 \times 8 - 7 \times 8 = (9 - 7) \times 6$
D. $3 \times 2 = 2 \times 3$
- 17) Which property is represented in the following statement ? If $a = b$ and $b = c$, then $a = c$.
- A. Reflexive Property of Equality
B. Property of Equality for Addition
C. Transitive Property of Equality
D. Symmetric Property of Equality
- 18) Which property is represented in the following statement ? If $a = a$: anything is congruent to itself.
- A. Symmetric Property of Equality
B. Transitive Property of Equality
C. Reflexive Property of Equality
D. Property of Equality for Division
- 19) Which property is represented in the following statement ? If $a = b$, then $a + c = b + c$
- A. Transitive Property of Equality
B. Reflexive Property of Equality
C. Property of Equality for Addition
D. Symmetric Property of Equality
- 20) Which of the following is an example of Commutative Property of Addition ?
- A. $7 + 9 = 9 + 7$
B. $(9 + 3) + 2 = 9 + (3 + 2)$
C. $6 \times 1 = 6$
D. $5 + 4 = 8 + 5$



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