

Teacher : _____

Date . _____

Working with the Properties of Mathematics

1) Which equation shows the Multiplicative Inverse of a Number ?

A. $a \times 0 = 0$

B. $a \times 1 = a$

C. $a + -a = 0$

D. $a \times (1/a) = 1$

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

A. $8 + 9 = 4 + 8$

B. $2 + 7 = 7 + 2$

C. $(7 + 5) + 3 = 7 + (5 + 3)$

D. $6 \times 1 = 6$

3) Which is an example of Identity Property of Addition ?

A. $(5 + 6) + 9 = 5 + (6 + 9)$

B. $2 + 0 = 2$

C. $8 + 5 = 5 + 8$

D. $4 \times 1 = 4$

4) Which property is used in the following expression ? $8(7 + 6) = 56 + 48$

A. Distributive Property

B. Commutative Property of Addition

C. Associative Property of Addition

D. Associative Property of Multiplication

5) Which property is used in the following ? $4 \times (8 + 7) = 4 \times 8 + 4 \times 7$

A. None of the above

B. Distributive Property

C. Commutative Property

D. Associative Property

6) Which Property of Multiplication is shown ? $(6 + 9) \times 4 = 6 \times 4 + 9 \times 4$

A. Commutative Property

B. Distributive Property

C. Identity Property

D. Associative Property

7) Simplify this expression : $3(y + z)$

A. $3z + y$

B. $3yz$

C. $3y + z$

D. $3y + 3z$

8) Which property is represented in the following statement ? If $a = b$, then $a - c = b - c$

A. Transitive Property of Equality

B. Property of Equality for Subtraction

C. Symmetric Property of Equality

D. Reflexive Property of Equality

9) Which property would you use to simplify the following expression ? $4(y + 5)$

A. Multiplication Property of Zero

B. Commutative Property

C. Associative Property

D. Distributive Property

10) Which equation shows the Additive Inverse of a Number ?

A. $a \times 0 = 0$

B. $a + a = 2a$

C. $a + -a = 0$

D. $a + 0 = a$



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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. Reflexive Property of Equality
C. Symmetric Property of Equality
D. Property of Equality for Multiplication
- 12) Which property is used in the following expression ? $(5 \times 2) \times 3 = 2 \times (3 \times 5)$
- A. Distributive Property of Multiplication
B. Associative Property of Multiplication
C. Associative Property of Addition
D. Commutative Property of Addition
- 13) Which of the following does not show the Commutative Property of Addition ?
- A. $6 + x = x + 6$
B. $3x + 4y = 4y + 3x$
C. $ab = ba$
D. $a + b = b + a$
- 14) Which property is used in the following expression ? $(a \times b) \times c = a \times (b \times c)$
- A. Associative Property of Multiplication
B. Associative Property of Addition
C. Distributive Property
D. Commutative Property of Addition
- 15) Which property is represented in the following statement ? If $a = b$, then $a / c = b / c$
- A. Symmetric Property of Equality
B. Reflexive Property of Equality
C. Transitive Property of Equality
D. Property of Equality for Division
- 16) Which property is represented in the following statement ? If $a = b$, then $a + c = b + c$
- A. Symmetric Property of Equality
B. Reflexive Property of Equality
C. Transitive Property of Equality
D. Property of Equality for Addition
- 17) Which is an example of Associative Property of Addition ?
- A. $(8 + 9) + 3 = 8 + (9 + 3)$
B. $2 + 0 = 2$
C. $4 + (-4) = 0$
D. $7 + 8 = 8 + 7$
- 18) Which equation shows the Commutative Property of Multiplication ?
- A. $2 \times 3 = 2 + 2 + 2$
B. $9 \times 4 = 4 \times 9$
C. $8 \times 1 = 8$
D. $7 \times 3 - 6 \times 3 = (7 - 6) \times 2$
- 19) Which operation will not change the value of any nonzero number ?
- A. Adding One
B. Multiplying by Zero
C. Dividing by Zero
D. Multiplying by One
- 20) Which Property of Addition does $5 + 0 = 5$ illustrate ?
- A. Distributive Property
B. Commutative Property
C. Identity Property
D. Zero Property



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21) Which property of addition is used in the following ? $(9 + 3) + 6 = 9 + (3 + 6)$

A. Distributive Property

B. Commutative Property

C. Associative Property

D. Identity Property

22) Which of the following does not show the Commutative Property ?

A. $xy - 9 = xy$

B. $x + y = y + x$

C. $2 + y = y + 2$

D. $yx = xy$

23) Which equation shows the Identity Property of Multiplication ?

A. $(a + b) + 8 = a + (8 + b)$

B. $a + a + a = 3 \times a$

C. $a \times 1$

D. $a(b + c) = ab + ac$



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