Name:	Score:	
Teacher:	 Date:	

Working with the Properties of Mathematics

1)	Which property	v is used in t	the following (expression ?	a x h) x c = a x ((h x c)
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A.
$$7+2=2+7$$
 B. $5+0=5$

C.
$$6 \times 1 = 6$$
 D. $(2 + 4) + 8 = 2 + (4 + 8)$

A.
$$a + -a = 0$$
 B. $a \times (1/a) = 1$

C.
$$a \times 0 = 0$$
 D. $a \times 1 = a$

A.
$$8+7=7+8$$
 B. $9 \times 1 = 9$

C.
$$5 + 4 = 6 + 5$$
 D. $(7 + 2) + 3 = 7 + (2 + 3)$

7) Which property is used in the following expression?
$$6(9 + 8) = 54 + 48$$

8) Which property would you use to simplify the following expression?
$$9(y + 7)$$

Which property would you use to simplify the following expression
$$f = 9(y + r)$$

A.
$$3 \times 1 = 3$$
 B. $5 \times 0 = 0$

C.
$$8 \times 9 = 9 \times 8$$
 D. $4 + 4 + 4 = 3 \times 4$

10) Which property of addition is used in the following?
$$(7 + 8) + 9 = 7 + (8 + 9)$$

0) Which property of addition is used in the following?
$$(7+8)+9=7+(8+9)$$

Name :	Score :
Teacher:	Date :
Working with the Pr	operties of Mathematics
11) Which equation shows the Additive Inverse of a	Number ?
A. $a \times 0 = 0$	B. a + 0 = a
C. $a + a = 2a$	D. $a + -a = 0$
12) Which Property of Multiplication is shown? (2	$(2 + 7) \times 3 = 2 \times 3 + 7 \times 3$
A. Identity Property	B. Commutative Property
C. Distributive Property	D. Associative Property
13) Which property is represented in the following s	statement ? If $a = b$ and $b = c$, then $a = c$.
A. Symmetric Property of Equality	B. Property of Equality for Addition
C. Reflexive Property of Equality	D. Transitive Property of Equality
14) Which of the following does not show the Comn	nutative Property ?
A. $4 + y = y + 4$	B. xy - 6 = xy
C. $x + y = y + x$	D. $yx = xy$
15) Which is an example of Associative Property of	Addition ?
A. $7 + 0 = 7$	B. 3 + 5 = 5 + 3
C. $6 + (-6) = 0$	D. $(5+9)+4=5+(9+4)$
16) Which operation will not change the value of an	y nonzero number ?
A. Adding One	B. Multiplying by Zero
C. Dividing by Zero	D. Multiplying by One
17) Which of the following does not show the Comn	nutative Property of Addition ?
A. $3 + x = x + 3$	B. a+b=b+a
C. ab = ba	D. $3x + 4y = 4y + 3x$
18) Which property is represented in the following s	statement ? If a = b, then b = a.
A. Symmetric Property of Equality	B. Transitive Property of Equality
C. Reflexive Property of Equality	D. Property of Equality for Subtraction
	$x(2+3) = 4 \times 2 + 4 \times 3$
A. Associative Property	B. Commutative Property

D. None of the above

 $(4 \times 2) \times 5 = 2 \times (5 \times 4)$

B. Distributive Property of Multiplication

D. Associative Property of Multiplication

C. Distributive Property

20) Which property is used in the following expression?

A. Associative Property of Addition

C. Commutative Property of Addition

Name:	Score:	
Teacher:	Date :	

Working with the Properties of Mathematics

21) Which equation shows the Identity Property of Multiplication?

A.
$$(a + b) + 7 = a + (7 + b)$$

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

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

22) Which equation shows the Commutative Property of Multiplication?

A.
$$8 \times 6 = 6 \times 8$$

B.
$$5 \times 9 - 3 \times 9 = (5 - 3) \times 4$$

C.
$$7 \times 1 = 7$$

D.
$$4 \times 3 = 4 + 4 + 4$$

23) Which equation shows the Addition Property of Zero?

A.
$$a \times 0 = 0$$

B.
$$a + 0 = a$$

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

D.
$$(a + b) + 7 = a + (7 + b)$$

24) Simplify this expression : 8(y + z)

A.
$$8y + 8z$$

B.
$$8y + z$$

C.
$$8z + y$$

25) Which operation will not change the value of any nonzero number?

26) Which property is represented in the following statement? If a = a: anything is congruent to itself.

