

Name : _____

Date : _____

1.4 Worksheet

Working with the Properties of Mathematics

- 1) Which operation will not change the value of any nonzero number ?
- A. Dividing by Zero
B. Multiplying by Zero
C. Adding One
D. Multiplying by One
- 2) Which of the following is an example of Commutative Property of Addition ?
- A. $(3 + 6) + 5 = 3 + (6 + 5)$
B. $2 + 3 = 3 + 2$
C. $4 + 8 = 7 + 4$
D. $9 \times 1 = 9$
- 3) Which property is used in the following expression ? $(3 \times 9) \times 2 = 9 \times (2 \times 3)$
- A. Distributive Property of Multiplication
B. Commutative Property of Addition
C. Associative Property of Multiplication
D. Associative Property of Addition
- 4) Which equation shows the Zero Property of Multiplication ?
- A. $5 \times 2 = 2 \times 5$
B. $9 + 9 + 9 = 3 \times 9$
C. $4 \times 1 = 4$
D. $3 \times 0 = 0$
- 5) Which of the following does not show the Commutative Property of Addition ?
- A. $3x + 4y = 4y + 3x$
B. $5 + x = x + 5$
C. $a + b = b + a$
D. $ab = ba$
- 6) Which property of addition is used in the following ? $(2 + 8) + 5 = 2 + (8 + 5)$
- A. Distributive Property
B. Commutative Property
C. Identity Property
D. Associative Property
- 7) The value of any nonzero number will be changed by _____ .
- A. adding zero
B. multiplying by one
C. multiplying by zero
D. dividing by one
- 8) Which Property of Addition does $6 + 0 = 6$ illustrate ?
- A. Commutative Property
B. Identity Property
C. Distributive Property
D. Zero Property
- 9) Which is an example of Identity Property of Addition ?
- A. $6 + 0 = 6$
B. $4 \times 1 = 4$
C. $2 + 5 = 5 + 2$
D. $(5 + 8) + 9 = 5 + (8 + 9)$
- 10) Which is an example of Associative Property of Addition ?
- A. $7 + 5 = 5 + 7$
B. $(5 + 2) + 9 = 5 + (2 + 9)$
C. $4 + 0 = 4$
D. $3 + (-3) = 0$

Working with the Properties of Mathematics

11) Which equation shows the Identity Property of Multiplication ?

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

B. $a \times 1$ _____

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

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

12) 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 Addition

C. Commutative Property of Addition

D. Associative Property of Multiplication

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

A. $7 + y = y + 7$

B. $x + y = y + x$ _____

C. $yx = xy$

D. $xy - 5 = xy$

14) Which equation shows the Commutative Property of Multiplication ?

A. $6 \times 3 = 3 \times 6$

B. $7 \times 1 = 7$ _____

C. $2 \times 3 = 2 + 2 + 2$

D. $4 \times 8 - 5 \times 8 = (4 - 5) \times 2$