

Name : _____

1.4 Review

Working with the Properties of Mathematics

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

Working with the Properties of Mathematics

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

A. $4 + 6 = 7 + 4$

B. $(9 + 8) + 2 = 9 + (8 + 2)$

C. $3 + 9 = 9 + 3$

D. $5 \times 1 = 5$

C

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

A. $x + y = y + x$

B. $4 + y = y + 4$

C. $xy - 9 = xy$

D. $yx = xy$

C

13) Which property is used in the following expression ? $(5 \times 2) \times 4 = 2 \times (4 \times 5)$

A. Associative Property of Addition

B. Distributive Property of Multiplication

C. Associative Property of Multiplication

D. Commutative Property of Addition

C

14) Which Property of Addition does $4 + 0 = 4$ illustrate ?

A. Distributive Property

B. Zero Property

C. Commutative Property

D. Identity Property

D