

Lesson 1.1 Number Properties

There are certain rules or properties of math that are always true.

The **Commutative Properties** of addition and multiplication state that the order in which numbers are added or multiplied does not change the result.

$$\begin{array}{lcl} a + b = b + a & \text{and} & a \times b = b \times a \\ 2 + 3 = 5 & & 5 \times 2 = 10 \\ 3 + 2 = 5 & & 2 \times 5 = 10 \end{array}$$

The **Associative Properties** of addition and multiplication state that the way in which addends or factors are grouped does not change the result.

$$\begin{array}{lcl} (a + b) + c = a + (b + c) & \text{and} & (a \times b) \times c = a \times (b \times c) \\ (2 + 3) + 4 = 2 + (3 + 4) & & (2 \times 4) \times 5 = 2 \times (4 \times 5) \\ 5 + 4 = 2 + 7 & & 8 \times 5 = 2 \times 20 \\ 9 = 9 & & 40 = 40 \end{array}$$

The **Identity Property of Addition** states that the sum of an addend and 0 is the addend.
 $5 + 0 = 5$

The **Identity Property of Multiplication** states that the product of a factor and 1 is that factor.
 $4 \times 1 = 4$

The **Properties of Zero** state that the product of a factor and 0 is 0. $5 \times 0 = 0$

The properties of zero also state that the quotient of zero and any non-zero divisor is 0. $0 \div 5 = 0$

Name the property shown by each statement.

- | | |
|--|--|
| <p>1. $2 \times 8 = 8 \times 2$ _____</p> <p>2. $35 \times 1 = 35$ _____</p> <p>3. $4 \times (6 \times 2) = (4 \times 6) \times 2$ _____</p> <p>4. $45 + 0 = 45$ _____</p> | <p>5. $2 + (3 + 4) = (2 + 3) + 4$ _____</p> <p>6. $32 + 25 = 25 + 32$ _____</p> <p>7. $0 \times 9 = 0$ _____</p> <p>8. $18 \times 0 = 0 \times 18$ _____</p> |
|--|--|

Rewrite each expression using the property indicated.

- | | |
|--|--|
| 5. Associative; $(3 + 5) + 2 =$ _____ | Commutative; $5 \times 7 =$ _____ |
| 6. Identity; $0 + 4 =$ _____ | Associative; $3 \times (2 \times 5) =$ _____ |
| 7. Commutative; $7 + 9 =$ _____ | Associative; $(2 + 5) + 4 =$ _____ |
| 8. Identity; $7 \times 1 =$ _____ | Identity; $37 + 0 =$ _____ |
| 9. Properties of Zero; $0 \times 12 =$ _____ | Properties of Zero; $0 \div 6 =$ _____ |

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