

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.

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

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

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

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.

1. $2 \times 8 = 8 \times 2$ _____

2. $35 \times 1 = 35$ _____

3. $4 \times (6 \times 2) = (4 \times 6) \times 2$ _____

4. $45 + 0 = 45$ _____

5. $2 + (3 + 4) = (2 + 3) + 4$ _____

6. $32 + 25 = 25 + 32$ _____

7. $0 \times 9 = 0$ _____

8. $18 \times 0 = 0 \times 18$ _____

Rewrite each expression using the property indicated.

9. Commutative; $(3 + 5) + 2 =$ _____

10. Commutative; $5 \times 7 =$ _____

11. Identity; $0 + 4 =$ _____

12. Identity; $3 \times (2 \times 5) =$ _____

13. Commutative; $7 + 9 =$ _____

14. Associative; $(2 + 5) + 4 =$ _____

15. Identity; $7 \times 1 =$ _____

16. Identity; $37 + 0 =$ _____

17. Properties of Zero; $0 \times 12 =$ _____

18. Properties of Zero; $0 \div 6 =$ _____

Answer Key To Spectrum Math Grade 8

Thomas Richards

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