

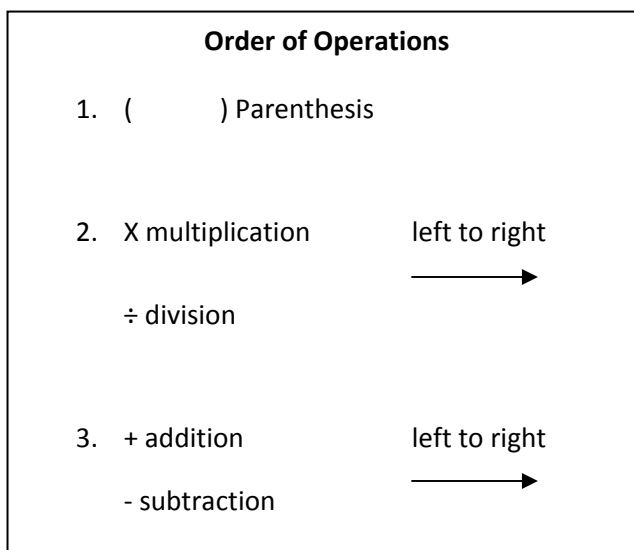
Lesson: Order of Operations

4th Grade Objective: 5.03b – Order of Operations

Lesson:

When solving problems with more than one operation, follow this order:

1. Simplify all operations that are grouped together in **Parenthesis**.
2. Simplify all multiplication and division in order from left to right.
3. Simplify all addition and subtraction in order from left to right.



Practice:

$$3 + (16 - 5) \times 6 = ?$$

What operations are in the problem? Addition, subtraction, and multiplication.

Following the order of operations, simplify operations in parentheses.

$$\begin{array}{c} \text{Operations in parenthesis : } (16 - 5) = \mathbf{11} \\ \downarrow \\ 3 + \mathbf{11} \times 6 = ? \end{array}$$

Simplify the multiplication.

$$\begin{array}{c} \text{Multiply } 11 \times 6 = \mathbf{66} \\ \downarrow \\ 3 + \mathbf{66} = ? \end{array}$$

Simplify the addition.

$$\text{Add: } 3 + 66 = \mathbf{69}$$

Therefore, $3 + (16 - 5) \times 6 = \mathbf{69}$

Practice:

Directions: Use the following equation to answer Numbers 1 through 4.

$$7 + (8 - 5) \div 2 = ?$$

1. What operations will you do first? _____
2. What operation is next? _____
3. What is the final operation? _____
4. What is the answer? _____

Directions: Use the order of operations to simplify Numbers 5 through 9.

5. $16 \div (4 - 2) =$ _____

6. $(7 - 3) \times 3 =$ _____

7. $(3 + 5) \times 2 =$ _____

8. $7 - (3 \times 2) =$ _____

9. $18 \div (5 + 1) \times 10 =$ _____