

Order of Operations

NOTES

The Order of Operations is a set of rules used to determine the correct sequence to evaluate a mathematical expression. The acronym PEMDAS is often used to help remember the order.

PEMDAS

P – Parentheses: Do any calculations inside parentheses first.

E – Exponents: Next, calculate any exponents (powers and square roots).

MD – Multiplication OR Division: From left to right, do multiplication or division (whichever comes first).

AS – Addition OR Subtraction: From left to right, do addition or subtraction (whichever comes first).

Steps to Follow:

1. **First**, do the operations inside parentheses.

2. **Next**, calculate any exponents.

3. **Then**, perform multiplication or division from left to right.

4. **Finally**, perform addition or subtraction from left to right.

When you have your answer, make sure to circle it!

Example Problem:

Solve: $8 + 3 \times (2^2 + 6) \div 3$

Step-by-Step Solution:

1. **Parentheses first:** Start by simplifying inside the parentheses.

- $2^2 = 4$, so the expression becomes:
 $8 + 3 \times (4 + 6) \div 3$

2. **Simplify inside Parentheses:**

- $4 + 6 = 10$, so the expression becomes:
 $8 + 3 \times 10 \div 3$

3. **Exponents:** There are no more exponents to evaluate.

4. **Multiplication and Division:** (From left to right)

- First, do the multiplication:
 $3 \times 10 = 30$, so the expression becomes:
 $8 + 30 \div 3$
- Next, do the division:
 $30 \div 3 = 10$, so the expression becomes:
 $8 + 10$

5. **Addition (Finally):** add

- $8 + 10 = 18$

Final Answer:

18

Order Of Operations Guided Notes

JL Elias

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
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