

# Order of Operations: PEMDAS

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1. **Parentheses** ( ) First, perform operations within parentheses.
2. **Exponents**  $Y^2$  Second, perform operations with exponents.
3. **Multiplication X and Division**  $\div$  Third, perform all multiplication and division operations from left to right.
4. **Addition + and Subtraction** - Lastly, perform all addition and subtraction operations from left to right.

Solve the following problems using PEMDAS

1.  $(4 + 3) \times 10 \div 2 + (5 \times 6)$

6.  $(10 - 7) + (2 \times 14 \div 4)$

2.  $3^2 + (2 + 12 \times 2) - 16 \div 4$

7.  $64 - 8 + 12 \times 2 + 9$

3.  $4(15 \div 3) + (6 \times 3) - 2^2$

8.  $12^2 - 23 + (9 \times 3)$

4.  $9^2 \times 2 - 20$

9.  $4^3 - 3^3$

5.  $1 - 13 \times 2 + 25 - 3 + 15 - 3$

10.  $9 + 5 - 10 \times 6 - 8$