

Order of Operations: PEMDAS

1. **Parentheses ()** First, perform operations within parentheses.
2. **Exponents Y^Z** Second, perform operations with exponents.
3. **Multiplication \times 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. $4(15 \div 3) + (6 \times 3) - 2^3$

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