

Order of Operations



You can use a phrase to help you remember the order of operations.

Please	Excuse	My	Dear	Aunt	Sally
Parentheses	Exponents	Multiply	Divide	Add	Subtract

Simplify:

Step 1 Parentheses

$$8^2 + (6 - 2) \times 5 - 10 \div 2$$

$$8^2 + 4 \times 5 - 10 \div 2$$

Step 2 Exponents

$$64 + 4 \times 5 - 10 \div 2$$

Step 3 Multiply and divide from left to right.

$$64 + 20 - 5$$

Step 4 Add and subtract from left to right.

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Simplify. Follow the steps in the order of operations.

1. $6^2 - 10 + 5 \times (2 - 1)$

$$6^2 - 10 + 5 \times \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - 10 + 5 \times \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} - 10 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

2. $6 \times (9 - 4) + 3^2$

$$6 \times \underline{\hspace{2cm}} + 3^2$$

$$6 \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Simplify. Use the order of operations.

3. $7 \times (3 + 9) = \underline{\hspace{2cm}}$

4. $(12 + 3) - 2 + 3 \times 7 = \underline{\hspace{2cm}}$

5. $3 \times 4^2 + 8 - 5 = \underline{\hspace{2cm}}$

6. $100 + 10^2 \times (6 - 3) = \underline{\hspace{2cm}}$

7. $36 \times 3 - 10 = \underline{\hspace{2cm}}$

8. $5^2 \times 2 + 4 = \underline{\hspace{2cm}}$

9. $1.2 \times (4 + 3) - 7 = \underline{\hspace{2cm}}$

10. $25 - 2 \times 6 + 4^2 = \underline{\hspace{2cm}}$

11. $9 \times (14 - 3) \div 3 = \underline{\hspace{2cm}}$

12. $63 \div 9 + 2 \times 5 = \underline{\hspace{2cm}}$

13. $15.4 + 2 \times 5.3 = \underline{\hspace{2cm}}$

14. $6^2 \div (9 - 5) + 7 = \underline{\hspace{2cm}}$

15. $(-4 + 8) \times 6 \div 2 = \underline{\hspace{2cm}}$

16. $(\frac{1}{4})^2 + 6 \times 2 - 24 \div 2 = \underline{\hspace{2cm}}$