

Simply My Swank Education

Order of Operations (PEMDAS) Practice

Name: _____

Date: _____

■ Order of Operations Reference Bank:

1. Parentheses () or { } (Simplify from inside out)
2. Exponents x^2
3. Multiplication & Division $\times$ and $\div$ (Solve from left to right)
4. Addition & Subtraction $+$ and $-$ (Solve from left to right)

Directions: Solve each expression completely using the correct order of operations. Show your work step-by-step.

Part A: Basic Operations & Parentheses

1. $12 + 8 \div 2 =$ _____
2. $5 \times (9 - 4) =$ _____
3. $24 \div 6 + 3 \times 2 =$ _____
4. $(15 - 3) \div 4 + 7 =$ _____
5. $18 - 3 \times 5 + 2 =$ _____

Part B: Introducing Exponents

6. $4^2 - 10 + 3 =$ _____
7. $2 \times 3^2 + 5 =$ _____
8. $(6 + 2)^2 \div 4 =$ _____
9. $50 - 5 \times 2^3 =$ _____
10. $3^3 \div 9 + 11 =$ _____

Part C: Multiple Grouping Symbols & Nested Operations

11. $4 \times [2 + (12 - 7)] =$ _____
12. $(18 \div 3)^2 - 5 \times 4 =$ _____
13. $[25 - (3 + 2)^2] + 8 =$ _____
14. $6 \times (1 + 1) - 2 \blacksquare \div 4 =$ _____
15. $100 \div [2 \times (7 + 3)] =$ _____

Part D: Advanced Challenge Problems

16. $(12 + 18) \div (15 - 10) + 2^3 =$ _____
17. $7 + (8 - 5)^2 \times 2 - 4 =$ _____

18. $45 \div 5 \times 3 + (11 - 6) =$ _____

19. $2 \times [35 - (4^2 + 4)] =$ _____

20. $(5^2 - 5) \div (2 \times 5) + 9 =$ _____

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PEMDAS Worksheet — Teacher Answer Key

1. 16	2. 25	3. 10	4. 10
5. 5	6. 9	7. 23	8. 16
9. 10	10. 14	11. 28	12. 16
13. 8	14. 8	15. 5	16. 14
17. 21	18. 32	19. 30	20. 11