Order of Operations – PEMDAS

Evaluate problems in the following order :

1) P - Parentheses

2) E - Exponents (Powers and Square Roots)

3) MD - Multiplication and Division (Left to Right)

4) AS - Addition and Subtraction (Left to Right)

Solve each expression by following the order of operations rules.

1. $(12 \div 3) \times 10 \div 2 + (5 \times 6)$

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

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

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

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

6. $(10 - 7) + (2 \times 12 \div 4)$

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

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

9. $4^3 - 3^3$

10. $19 + 5 - 4 \times 6 + 8$

Order of Operations: PEMDAS

Solve each expression by following the order of operations rules.

1. $(12 \div 3) \times 10 \div 2 + (5 \times 6) = 50$ 2. $3^2 + (2 + 12 \times 2) - 16 \div 4 = 31$

3. $4 (15 \div 3) + (6 \times 3) - 2^2 = 34$ 4. $9^2 \times 2 - 20 = 142$

5. $13 \times 2 + 25 - 3 + 15 - 3 = 60$ 6. $(10 - 7) + (2 \times 12 \div 4) = 9$

7. $64 - 8 + 12 \times 2 + 9 = 89$ 8. $12^2 - 23 + (9 \times 3) = 148$

9. $4^3 - 3^3 = 37$ 10. $19 + 5 - 4 \times 6 + 8 = 8$

Order of Operations

Simplify each expression using right order of operations.

1. $(3 + 6) \times 2 + 6$

2. $3^2 + 12 \times 2 - 4$

3. $15 \div 3 + (6 \times 2) - 1$

4. $4^2 \times (12 - 7)$

5. $3 \times 9 + 18 \div 3 + 15$

6. $(7 - 2) + (7 \times 15 \div 5)$

7. $64 - 11 \times 2 + 7$

8. $6^2 - 19 + (6 \times 3)$

9. $5^3 - 7^2 + 2^2$

10. $13 + 7 \times 6 \div 3 - 6$

11. $12 + (4 \times 2) + 21 \div 3$

12. $18 \div 3 + 5 \times 2 - 3$

13. $25 - 9 \div 3 \times 2 + 11$

14. $13 - 5 \times 3 + 12 \div 3$

15. $9 + (8 \times 3^2 - 13)$

16. $5 \times 2 - 3 + 18 \div 6$

17. $4^2 + 4 \times 5 - 2^3$

18. $5^2 + (19 - 6 \times 3)$

Order of Operations

Simplify each expression using right order of operations.

1. $(3 + 6) \times 2 + 6 = 24$

2. $3^2 + 12 \times 2 - 4 = 29$

3. $15 \div 3 + (6 \times 2) - 1 = 16$

4. $4^2 \times (12 - 7) = 80$

5. $3 \times 9 + 18 \div 3 + 15 = 48$

6. $(7 - 2) + (7 \times 15 \div 5) = 26$

7. $64 - 11 \times 2 + 7 = 49$

8. $6^2 - 19 + (6 \times 3) = 35$

9. $5^3 - 7^2 + 2^2 = 80$

10. $13 + 7 \times 6 \div 3 - 6 = 21$

11. $12 + (4 \times 2) + 21 \div 3 = 27$

12. $18 \div 3 + 5 \times 2 - 3 = 13$

13. $25 - 9 \div 3 \times 2 + 11 = 30$

14. $13 - 5 \times 3 + 12 \div 3 = 2$

15. $9 + (8 \times 3^2 - 13) = 68$

16. $5 \times 2 - 3 + 18 \div 6 = 10$

17. $4^2 + 4 \times 5 - 2^3 = 28$

18. $5^2 + (19 - 6 \times 3) = 26$

Order of Operations

Simplify each expression using right order of operations.

1. $30 \div (15 - 10)$

2. $10 + 6 \div 3 + 2 \times 8$

3. $3 \times 8 + 20 - 6 \div 2 + 3$

4. $7^2 \times 2 \div 1 - 10$

5. $4 \times 6 \div 2 + 7$

6. $(17 - 5) + 2 \times 12 \div 4$

7. $5 \times (3 + 2) + 5^2$

8. $25 - 3^3 \div (1 + 2)$

9. $18 - 24 \div 6 + 3 \times 5$

10. $24 \div 8 \times 11 - 7$

11. $25 - 4 \times 3 + (7 \times 2)$

12. $12 \div 4 + 3 \times 5$

13. $19 + 2 \times 3 + 16 - 4$

14. $20 + 18 \div 3 - 2$

15. $(8 - 3) \times 3^2 - 3$

16. $5^2 \times 4 - 2 \times 3 + 12$

17. $2^3 \div 4 \times 4 - 2^3$

18. $15 - 15 \div 3 \times 2^2$

Order of Operations

Simplify each expression using right order of operations.

1. $30 \div (15 - 10) = 6$

2. $10 + 6 \div 3 + 2 \times 8 = 28$

3. $3 \times 8 + 20 - 6 \div 2 + 3 = 44$

4. $7^2 \times 2 \div 1 - 10 = 88$

5. $4 \times 6 \div 2 + 7 = 19$

6. $(17 - 5) + 2 \times 12 \div 4 = 18$

7. $5 (3 + 2) + 5^2 = 50$

8. $25 - 3^3 \div (1 + 2) = 16$

9. $18 - 24 \div 6 + 3 \times 5 = 29$

10. $24 \div 8 \times 11 - 7 = 26$

11. $25 - 4 \times 3 + (7 \times 2) = 27$

12. $12 \div 4 + 3 \times 5 = 18$

13. $19 + 2 \times 3 + 16 - 4 = 37$

14. $20 + 18 \div 3 - 2 = 24$

15. $(8 - 3) \times 3^2 - 3 = 42$

16. $5^2 \times 4 - 2 \times 3 + 12 = 106$

17. $2^3 \div 4 \times 4 - 2^3 = 0$

18. $15 - 15 \div 3 \times 2^2 = -5$

Order of Operations

Find the answer using the right order of operations.

1. $5 - 2 + 3$

2. $10 \div 2 + 5$

3. $2 + 3 - 1$

4. $2 \times 3 + 4 - 1$

5. $1 + 2 - 1 \times 3$

6. $7 \times 1 - 4$

7. $8 + 4 - 3$

8. $9 \div 3 + 1$

9. $5 + 3 \times 2 - 1$

10. $6 + 2 \times 3$

11. $9 \times 1 - 5 + 3 = 7$

12. $7 + 5 - 3 \times 1$

13. $10 + 3 \div 1 - 2$

14. $5 + 4 - 2$

15. $7 \times 1 - 2 + 3$

16. $9 \div 3 \times 2 - 3$

17. $11 - 10 + 4$

18. $10 \div 5 + 2 - 3$

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Order of Operations

Find the answer using the right order of operations.

1. $5 - 2 + 3 = 6$

2. $10 \div 2 + 5 = 10$

3. $2 + 3 - 1 = 4$

4. $2 \times 3 + 4 - 1 = 9$

5. $1 + 2 - 1 \times 3 = 0$

6. $7 \times 1 - 4 = 3$

7. $8 + 4 - 3 = 9$

8. $9 \div 3 + 1 = 4$

9. $5 + 3 \times 2 - 1 = 10$

10. $6 + 2 \times 3 = 12$

11. $9 \times 1 - 5 + 3 = 7$

12. $7 + 5 - 3 \times 1 = 9$

13. $10 + 3 \div 1 - 2 = 11$

14. $5 + 4 - 2 = 7$

15. $7 \times 1 - 2 + 3 = 8$

16. $9 \div 3 \times 2 - 3 = 3$

17. $11 - 10 + 4 = 5$

18. $10 \div 5 + 2 - 3 = 1$

Order of Operations

Solve each expression by following the order of operations rules.

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

2. $(1 \times 7) + (8 \div 4) - 9$

3. $(9 \times 3) - (16 \div 4) + 5$

4. $(6 - 2) \times (9 \div 3) + 8$

5. $(25 \div 5) + 10$

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

7. $12 + 2 - (3 \times 3)$

8. $(9 + 1) - 6 \times 1$

9. $10 + (2 \times 4) \div 4$

10. $(5 \times 4) + 10 - 7$

11. $(7 \times 2 - 4) \div 5$

12. $(20 - 10) + 10 \div 5$

13. $(15 \div 3) + 9 - 1$

14. $(6 \div 6) \div 9 \div 3$

Order of Operations

Solve each expression by following the order of operations rules.

1. $(10 \div 5) + (6 \times 3) = 20$

2. $(1 \times 7) + (8 \div 4) - 9 = 0$

3. $(9 \times 3) - (16 \div 4) + 5 = 28$

4. $(6 - 2) \times (9 \div 3) + 8 = 20$

5. $(25 \div 5) + 10 = 15$

6. $(5 \times 6) + (4 \div 2) - 3 = 29$

7. $12 + 2 - (3 \times 3) = 5$

8. $(9 + 1) - 6 \times 1 = 4$

9. $10 + (2 \times 4) \div 4 = 12$

10. $(5 \times 4) + 10 - 7 = 23$

11. $(7 \times 2 - 4) \div 5 = 2$

12. $(20 - 10) + 10 \div 5 = 12$

13. $(15 \div 3) + 9 - 1 = 13$

14. $(6 \div 6) \div 9 \div 3 = 3$

Order of Operations

Solve each expression by following the order of operations rules.

1. $16 - 3 \times 4 + 7$

2. $8 + (11 - 2 - 3)$

3. $5 + 6 - (8 - 6)$

4. $12 \div 2 - 3 \times 2$

5. $4 \times 6 - 2 \times 3$

6. $9 - 8 \div 8 \times 5$

7. $2 \times 8 + 8 - 8$

8. $5 - 2 + 4 \times 3$

9. $11 + 4 - (8 - 5)$

10. $4 + 10 - (5 + 7)$

11. $8 \times (7 - 7) \div 9$

12. $(5 - 8 \div 8) \times 4$

13. $6 + 18 \div 6 - 1$

14. $6 + 2 - 4 \div 2$

Order of Operations

Solve each expression by following the order of operations rules.

1. $16 - 3 \times 4 + 7 = 11$

2. $8 + (11 - 2 - 3) = 14$

3. $5 + 6 - (8 - 6) = 9$

4. $12 \div 2 - 3 \times 2 = 0$

5. $4 \times 6 - 2 \times 3 = 18$

6. $9 - 8 \div 8 \times 5 = 4$

7. $2 \times 8 + 8 - 8 = 16$

8. $5 - 2 + 4 \times 3 = 15$

9. $11 + 4 - (8 - 5) = 12$

10. $4 + 10 - (5 + 7) = 2$

11. $8 \times (7 - 7) \div 9 = 0$

12. $(5 - 8 \div 8) \times 4 = 16$

13. $6 + 18 \div 6 - 1 = 8$

14. $6 + 2 - 4 \div 2 = 6$