

Order of Operations

When solving an equation, be sure to follow the **priority pyramid**.

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1. Parenthesis
 2. Exponents
 3. Multiplication & Division
 4. Addition & Subtraction

$$3 + (3^2 + 9) \div -3 - 1 = 3 + (9 + 9) \div -3 - 1 = 3 + 18 \div -3 - 1 = 3 + -6 - 1 = -4$$

Solve the following.

1. $(17 - 9) + 5$

11. $\frac{8^2 - 13}{(4 + 9) + 4}$

2. $3 \cdot 5 + 9 \cdot 7$

12. $\frac{3^2 - 5 \cdot 7 - 4^2}{(-4 - 9 - 12) + 4}$

3. $36 \div 9 - 8 + 21 \div 3$

13. $\frac{(5 - 9)^2 + 2}{(7 - 8)^2 \cdot 3^2}$

4. $12 \div (3 - 7) + 7$

14. $\frac{5 \cdot 6 - (3 + 4)}{-2^2 - 2^2 + 3^2}$

5. $8 - 4 \cdot 5(2 - 2) + 3$

15. $\frac{3^2 - 10}{4^2 - 12}$

6. $12 \div (3 + (6 + 3))$

16. $\frac{3^2 - 1 + 2^2}{3 + 10 - 19 + 32}$

7. $9(3 \div 3) + 4(-5 \cdot 9) \div 3$

17. $\frac{4 + 2 \cdot 3 + 4 - 3}{2^2 \cdot 3^2 - 3}$

8. $5(9 - 8) \cdot 6 + 5 - 3$

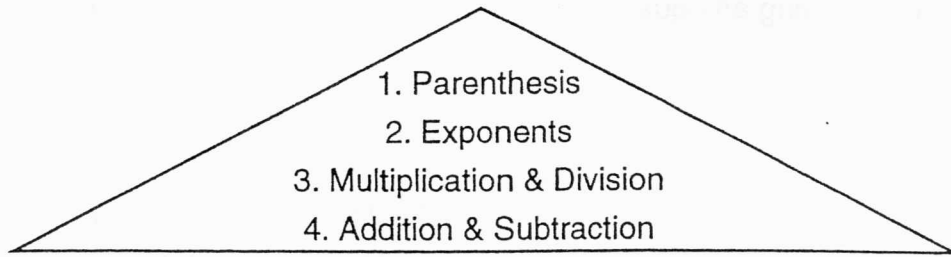
18. $3 \cdot (0 - 7) + 8 \div 2^2$

9. $3 - (6 \cdot 6) - -3 \cdot 0$

19. $4^2 + 3^2 - 6^2$

Order of Operations

When solving an equation, be sure to follow the **priority pyramid**.



Solve the following.

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

2. $4 + 3(12 - 9) =$

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

4. $(9 - 7)^3 - (4 + 3) =$

5. $4(9 - 6)^2 =$

6. $(14 - 6)^2 =$

7. $2(5 + 4) =$

8. $(2 \times 3) + (14 \div 7) =$

9. $7 + 2^2(5 + 2) =$

10. $4 + 7 \times 3 - 8 \times 2 =$

11. $3 + 7^2 =$

12. $(5^2 - 3 \times 5) \div 2 =$

13. $(12 - 8)^3 =$

14. $3 \times 8 - (7 \times 2 + 4) =$

15. $(2^2 + 3)^2 - 4 =$

16. $4^2 - 2^3 =$

17. $5^2 - 4^2 + 2 =$

18. $5 + 3 \times 2 - 4 \div 2 =$

19. $(3^2 + 2 \times 3) \div 5 =$

20. $7^2 - 2(4 \times 3 + 7) =$