

STUDY LINK
7•5

Order of Operations



Rules for Order of Operations

- ① Do operations inside **parentheses**.
- ② Calculate all expressions with **exponents**.
- ③ **Multiply** and **divide** in order, from left to right.
- ④ **Add** and **Subtract** in order, from left to right.

Solve.

1. $4 + 5 * 6 =$ _____

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

3. $12 * 2 + 8 \div 2 =$ _____

4. $115 - 10^2 + 3 * 5 =$ _____

5. $6 * (3 + 2^2) \div 2 =$ _____

6. $7 + 9 * 7 \div 3 =$ _____

Write true or false for each number sentence. Follow the rules for order of operations.

7. $3 + 4 * 5 = 35$ _____

8. $(3 + 4) * 5 = 35$ _____

9. $0 = 3 * 4 - 12$ _____

10. $0 = (3 * 4) - 12$ _____

11. $36 = 12 - 3 * 4$ _____

12. $36 = (12 - 3) * 4$ _____

13. $8 \div 2 + 6 = 1$ _____

14. $8 \div (2 + 6) = 1$ _____

Practice

Find the number that each variable represents.

15. $354 * 26 = z$ _____

16. $907 * 86 = r$ _____

17. $3.000 - 1.75 = s$ _____

18. $0.006 + 3.2 + 0.75 + 4 = h$ _____