



Order of Operations

As you evaluate the problems on this page remember the rules for Order of Operations:
(PEMDAS or Please excuse my dear Aunt Sally's Loud Radio)

1. Do all work inside the grouping symbols and/or **P**arentheses. (Grouping symbols include $[]$, $()$, and $\frac{x}{y}$.)
2. **E**xponents.
3. **M**ultiply/**D**ivide from left to right.*
4. **A**dd/**S**ubtract from left to right.*

Example: $2(3+4)$

$$2(7) =$$

$$14$$

Example: $3 \times 5 \div (7-2)$

$$3 \times 5 \div 5 =$$

$$15 \div 5 =$$

$$3$$

Example: $10^2 + 7 \times 5$

$$100 + 7 \times 5 =$$

$$100 + 35 =$$

$$45$$

Evaluate. Show your work.

1. $7 + 10 \times 2$

2. $5 \times 6 - 3$

3. $15 - 3 + 7$

4. $10 \div 2 + 3 - 1$

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

6. $2 \times 2^2 + 6$

7. $50 + 5 \times 11$

8. $24 \div 3 \times 2 - 2$

9. $8 + 3 - 3^2 \times 2 \div 3$

10. $3^2(11 - 4 + 1)$

11. $48 \div 4 - 10 \div 5$

12. $30 \div 5 - 5 + 4$

13. $21 + 21 \div 21$

14. $[3 + (4 \times 5)] \times 10$

15. $[18 + (15 - 3)] + 14$

16. $\frac{8(13+7)}{4 \times 8 + 8}$