



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