# Order of Operations:

P E M D A S

*to remember:* Please Excuse My Dear Aunt Sally

## Parentheses

(all grouping symbols)

$\{\quad\}, [\quad], (\quad), \sqrt{\quad},$

$7 + 5(10 - 8 \div 2)$

## Exponents

**If no exponent is visible:**

1) You can treat the sign in front of the number as the sign of the number, ..... but, with exponent other than 1, you *can* ***not***.

$20 - 7 + 2$

$30 - 5^2 + 4$

2) You can use the rules of multiplication to change from 2 signs to 1 sign, .....but, with exponent other than 1, you *can* ***not***.

$20 + (-7) + 2$

$30 + (-5)^2 + 4$

## Multiplication *or* Division

$28 \div 7 \cdot 2$

$19 + (-6)^2 \div 4 \cdot 10 - 3^2$

## Addition *or* Subtraction

$30 - 4(8 - 6 \div 2) + 1$

$10 - 3 \cdot 2 + 5$