## Chapter 2 sec 5 Order of operations

Check page 148 in the book for the guidelines

- 1) Grouping symbols
- 2) Exponents
- 3) Multiplication, division from left to right
- 4) Addition, subtraction from left to right.

Example 1: page 148

simplify: a) 
$$\left(-3\right)^2$$
 b)  $-3^2$ 

Example 2: page 149

Simplify: -2 - 3(5 - 7)

Example 3:

simplify: 
$$-2(2-4)^2 - 3(3-5)^3$$

Example 4

Simplify: 
$$-24 \div 8(-3)$$

Example 6: page 150

Simplify: 
$$\frac{-5-5(2-4)^3}{-22-3(-5)}$$

Absolute value

Number between two bars: |5| read, "the absolute value of 5" Absolute value indicates a distance from zero to the number, so |5| = 5

The absolute value is another grouping symbol similar to the fraction bar.

What is the difference between – (-3) and - |3|?

Example 8: Page 151 Simplify: -3 - 2|5 - 7|