### Warmup

Order from least to greatest:

$$\frac{4}{5}$$
, 4.5 x 10<sup>-2</sup>, 45%, 0. $\overline{8}$   
4.5 x 10<sup>-2</sup>, 45%,  $\frac{4}{5}$ , 0. $\overline{8}$ 

$$-2\frac{4}{5}-\frac{2}{3}$$

## Order of Operations

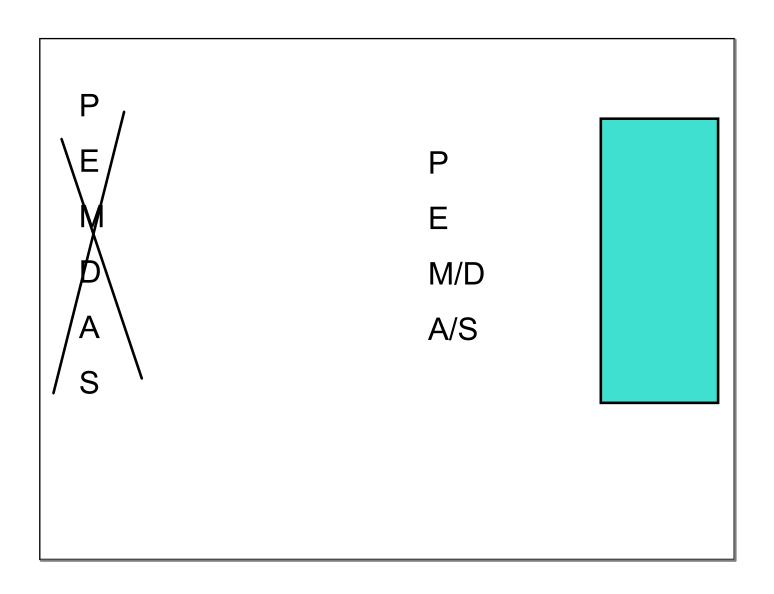
# What is order of operations?

Tells you which operations to perform first when you have a math sentence with more than one operation.

Example:  $5 \cdot 3 + 5$ 

Which operation do you complete first?

# The Correct Order Step 1 Work inside the parentheses Step 2 Exponents Multiplication/Division (from left to right) Addition/Subtraction from left to right



# Example: 2(5-4)<sup>2</sup>+3

(5-4)= 1; Now we have  $2(1)^2+3$ 

 $(1)^2$ = 1; Now we have 2(1)+3

2(1)= 2; Now we have 2+3

2+3= 5

Final Answer: 5



## NOW YOU TRY.

$$2 \times (14 \div 2)^{2} + 5 \times 12$$
  
 $2 \cdot (7)^{2} + 5 \times 12$   
 $2 \cdot 49 + 5 \cdot 12$   
 $98 + 60$   
 $158$ 

$$80 \div (2^{3} \times 5) + 47 - 19$$
  
 $80 \div (8.5) + 47 - 19$   
 $80 \div 40 + 47 - 19$   
 $2 + 47 - 19$   
 $49 - 19$   
 $30$ 

7. 
$$(4+3)^{2} \div 7 \cdot (8-3) \div 2$$
  
7.  $(7)^{2} \div 7(5) \div 2$   
7.  $(9)^{2} \div 7(5) \div 2$   
343 ÷ 7.5 ÷ 2  
49.5 ÷ 2  
245 ÷ 2  
122.5