Expressions: Simplifying Numeric

Date: 10-1-12

Objective: Today we will define the order of operations in order to simplify numeric expressions.

Notes:

Numeric Expressions: expressions containing only numbers, no variables

The **Order of Operations** tells us how to simplify numeric expressions.

What are numeric expressions?

Simplifying a Numeric Expression

When we simplify, we use the order:

Parentheses

Exponents

Multiply and **D**ivide

Add and **S**ubtract

What are some memory tricks for this?

Please Excuse My Dear Aunt Sally

PEMDAS

Example: $18 \div 2 \cdot 5$

$9 \cdot 5$

$\boxed{45}$

Example: $(44 - 5) \div 3$

$39 \div 3$

$\boxed{13}$

Example: $(10 - 6)5 - 8 \div 2$

$(4)5 - 8 \div 2$

$20 - 8 \div 2$

$20 - 4$ $\boxed{16}$

Exit Ticket

① $(8+2)3 \div 5$

② $16 - (12 + 1)$

③ $\frac{1}{2}\left(6 + \frac{1}{4}\right)$