

August 15, 2018

### Warm-up

Find each difference.

$$\begin{aligned} 1) (-2) - 5 \\ = -7 \end{aligned}$$

Evaluate each expression.

$$\begin{aligned} 2) (-1) + 4 - (-9) \\ (-1) + 4 + (+9) \\ = 12 \end{aligned}$$

#

Find each quotient

$$\begin{aligned} 3) \frac{-20}{5} \\ -4 \end{aligned}$$

Find each product

$$\begin{aligned} 4) (2)(-1)(2)(6) \\ -24 \end{aligned}$$

### Notes

~~Please (Parenthesis)~~

~~Excuse (Exponents)~~

~~{ My (Multiplication)~~

~~{ Dear (Division)~~

~~Aunt (Addition)~~

~~Sally (Subtraction)~~

PEMDAS does  
not work.

If looks like there are 6 steps but there are actually  
only 4.

### ① Grouping

$$\begin{aligned} & 3(2+5) \\ \text{Bracket} & \rightarrow 7 + [(5+2) - 3] \end{aligned}$$

$$\text{Square root} \rightarrow 5 + \sqrt{6+3}$$

fraction  $\rightarrow \frac{6+4}{5}$

② Exponents

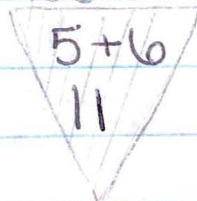
③ Multiplication and Division  
Left  $\rightarrow$  Right

④ Addition and Subtraction  
Left  $\rightarrow$  Right

7.  $5+3(2)$

- What would you do first? Multiplication

\*  $3(2)$  is the same as  $3 \cdot 2$



work from top to bottom  
as it gets smaller and smaller.  
Like an ice cream cone.

9.  $4^4(5) + 3(11)$

\*  $4^4 = \underbrace{4 \cdot 4 \cdot 4 \cdot 4}_{16 \cdot 16}$

$\begin{array}{r} 3 \\ 16 \end{array}$

$\times 16$

$96$

Do you see any grouping symbols?

$256(5) + 3(11)$

$1280 + 33$

$1313$

$+ 160$

$256$

$\begin{array}{r} 2 \\ 3 \\ 256 \end{array}$

$\times 5$

$1280$

Homework: pg. 13-14 #9-11; 13; 17-21; 24; 39-41, 45, 47, 49, 51