

# September 30, 2014<sup>5th</sup><sub>6th</sub>

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**Clear off your desks and  
be ready to take Quiz 1.4  
when the bell rings.**



## 9/24 Combining all operations with Integers

Compute:

$$\begin{aligned} & |(-4) + (+4)| - 6 \\ & = |0| - 6 \\ & = 0 - 6 \\ & = -6 \end{aligned}$$

$$\begin{aligned} & \frac{12}{(-3) + (+6)} \cdot (-3) \\ & = \frac{12}{3} \cdot (-3) \\ & = 4 \cdot (-3) \\ & = -12 \end{aligned}$$

**PEMDAS**

$$\begin{aligned} & |3 \cdot (-1)| - 6 \cdot (-4) \\ & = |-3| - 6 \cdot (-4) \\ & = 3 - 6 \cdot (-4) \\ & = 3 + (+24) \\ & = 27 \end{aligned}$$

$$\begin{aligned} & 3^2 \cdot \frac{(-13) - (-1)}{-3} \\ & = 9 \cdot \frac{-13 + (+1)}{-3} \\ & = 9 \cdot \frac{-12}{-3} \\ & = 9 \cdot 4 \\ & = 36 \end{aligned}$$

Evaluate each for  $m = -8, n = -4$

$$\begin{aligned} & m - (n + 3) \\ &= -8 - (-4 + 3) \\ &= -8 - (-1) \\ &= -8 + 1 \\ &= -7 \end{aligned}$$

$$\begin{aligned} & mn - n^2 \\ &= -8 \cdot -4 - (-4)^2 \\ &= \underline{-8 \cdot -4} - 16 \\ &= 32 - 16 \\ &= 16 \end{aligned}$$

Evaluate each for  $x = -10$ ,  $y = 5$ ,  $z = -2$

$$\begin{aligned} & \frac{x^2}{z} - y \\ &= \frac{(-10)^2}{-2} - 5 \\ &= \frac{100}{-2} - 5 \\ &= -50 - 5 \\ &= -55 \end{aligned}$$

$$\begin{aligned} & \frac{z^2 - x + 1}{y} \\ &= \frac{(-2)^2 - (-10) + 1}{5} \\ &= \frac{4 + (+10) + 1}{5} \\ &= \frac{15}{5} \\ &= 3 \end{aligned}$$

# Homework

Lilac WS 9 #1-16  
all

**Due** Thursday