

# September 29, 2014<sup>5<sup>th</sup></sup><sub>6<sup>th</sup></sub>

Starter

---

Compute each. 6, 7, 8 → 2

1.  $\underline{-5(-4)(-1)}$  4, 5 → 2 |  $\underline{5(-4)(-5)}$   
 $= 20 \cdot -1$  0, 1, 2, 3 → 0  $= 5 \cdot 20$   
 $= -20$   $= 100$

3.  $-5^2$   
 $= -5 \cdot 5$   
 $= -25$

4.  $-3 \cdot (-4)^2$   
 $= -3 \cdot \underline{-4 \cdot -4}$   
 $= 12 \cdot -4$   
 $= -48$

## 9/29 - Substitution using Integers

---

Work with a partner and how many synonyms  
you can find for "substitution."  
*substitute*

---

Replace  
Instead of  
Take the place of  
Switch  
Swap  
Change  
Exchange

Compute each:

$$\boxed{5x + 4} \text{ if } x = -2$$

*instructions*

$$\begin{aligned} & 5x + 4 \\ &= 5(-2) + 4 \\ &= -10 + 4 \\ &= -6 \end{aligned}$$

Remember to use the  
Order of Operations!

For each problem:

1. Write the problem
2. Replace the variable with its given value
3. Compute showing all of your work

$$-3y - 9 \quad \text{if } y = -8$$

$$\begin{aligned} & -3y - 9 \\ = & -3(-8) - 9 \\ = & \underline{24} - 9 \\ = & 15 \end{aligned}$$

$$-c + 5m - 3 \quad \text{if } c = -5, m = 2$$

$$\begin{aligned} & -c + 5m - 3 \\ = & +(+5) + \underline{5(2)} - 3 \\ = & \underline{5 + 10} - 3 \\ = & 15 - 3 \\ = & 12 \end{aligned}$$

( ) show  
the number that  
was substituted.

$$-2u^2 + 8 \text{ if } u = 3$$

$$\begin{aligned} & -2u^2 + 8 \\ &= -2(3)^2 + 8 \\ &= -2 \cdot 9 + 8 \\ &= -18 + 8 \\ &= -10 \end{aligned}$$

$$-5x^2 + 7x + 9 \text{ if } x = -4$$

$$\begin{aligned} & -5x^2 + 7x + 9 \\ &= -5(-4)^2 + 7(-4) + 9 \\ &= \underline{-5 \cdot 16} + 7 \cdot -4 + 9 \\ &= \underline{-80 + -28} + 9 \\ &= -108 + 9 \\ &= -99 \end{aligned}$$

*Homework*

Melon WS 7

*Due*

Top due Tuesday  
Bottom due Wednesday