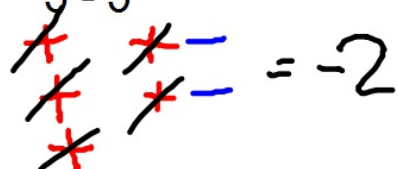
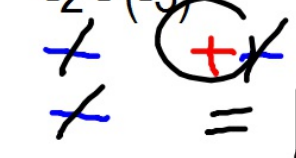


September 10, 2014 ^{5th} _{6th}

Starter

Show how to get the answer for each by using integer counters:

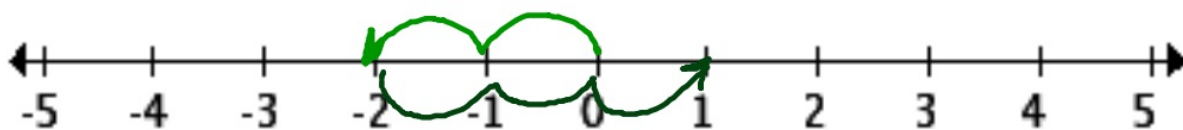
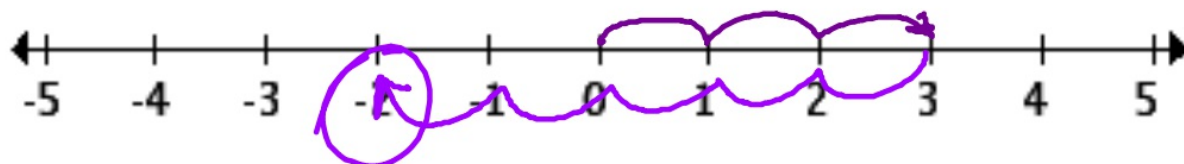
1. $3 - 5$
 = -2

2. $-2 - (-3)$
 = 1

Show how to get the answer for each by using a number line:

3. $3 - 5 = -2$


4. $-2 - (-3) = 1$



9/9 Subtracting Integers using Rules

Quick Write:

How are $4-2$ and $4+(-2)$ basically the same?

- Both 4's are positive
 - Same #'s
 - Answers are the same.
 - Both have a —
- Subtracting positive 2 is the same as adding negative 2.

Since $4-2$ and $4+(-2)$ are basically the same we can use them to make a rule for subtract:

Subtract
Rule

$$a - b = a + (-b)$$

"add the opposite"

Change the subtract to add;
Change the sign of the 2nd #.

Subtract.

$$\begin{aligned} 1. \quad & 3 - 8 \\ & = 3 +^{-}8 \\ & =^{-}5 \end{aligned}$$

$$\begin{aligned} 2. \quad & 6 - (-7) \\ & = 6 + (+7) \\ & = 13 \end{aligned}$$

change!
change!

$$\begin{aligned} 3. \quad & -10 +^{-}9 \\ & =^{-}19 \end{aligned}$$

$$\begin{aligned} 4. \quad & -5 + (-4) \\ & = -9 \end{aligned}$$

NEVER
change the
first sign!

$$\begin{aligned} 5. \quad & \underline{11 + (+2)} + 14 \\ & = 13 + 14 \\ & = 27 \end{aligned}$$

$$\begin{aligned} 6. \quad & \underline{-16 + (+12)} + (-8) \\ & = -4 + (-8) \\ & = -12 \end{aligned}$$

$$\begin{aligned} 7. \quad & \underline{6 + (-17)} - 4 \\ & = -11 + (-4) \\ & = -15 \end{aligned}$$

- 11.** You begin a hike in Death Valley, California, at an elevation of -86 meters. You hike to a point of elevation at 45 meters. What is your change in elevation?

Draw it out first to SEE what is happening!

- 12.** You sell T-shirts for a fundraiser. It costs \$112 to have the T-shirts made. You make \$98 in sales. What is your profit?

Draw it out!

Homework

Green WS 1.3 Practice A
#1-24

Due Thursday