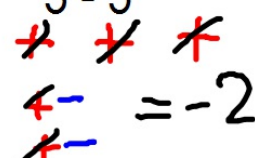



September 10, 2014^{4th}

Starter

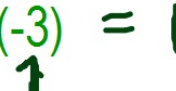
Show how to get the answer for each by using integer counters:

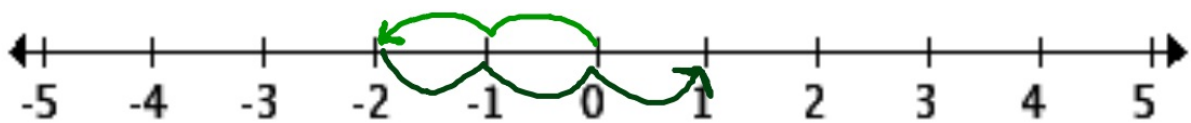
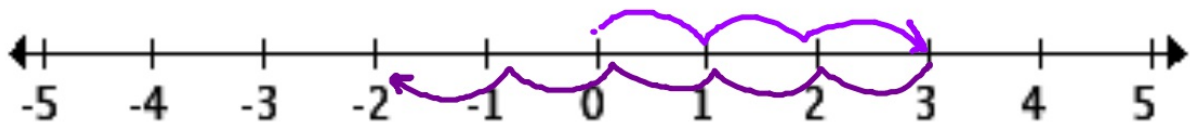
1. $3 - 5$

 $= -2$

2. $-2 - (-3)$

 $= 1$

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

3. $3 - 5 = -2$


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




9/10 Subtracting Integers using Rules

Quick Write:

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

- Same #'s
- Same sum
- Same pattern
- Worked differently but answers are the same.
- Adding a negative is the same as subtracting a positive.

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 second number."

Subtract.

$$1. 3 - 8$$

$$= 3 + -8$$

Change to ADD Change to Negative

$$= -5$$

change change

$$2. 6 - (-7)$$
$$= 6 + (+7)$$
$$= 13$$

$$3. -10 + 9$$

$$= -1$$

NEVER
change the
first sign

$$4. -5 + (-4)$$

$$= -9$$

Change
change

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

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

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

Homework

Green WS 1.3 Practice A
#1-24 all

Due Thursday