

September 8, 2014

**1st
2nd**

Starter

Clear off your desk and get out a sharpened pencil to be ready for quiz 1.2 (adding integers)



Challenge Accepted

9/4 - Subtracting Integers using Counters and Number lines

Integer Counters

1 ACTIVITY: Subtracting Integers

Work with a partner. Draw a picture to show how you use integer counters to find $4 - 2$.

$$= 2$$

 = one positive

 = one negative

Subtract means
"take away"
"cancel"

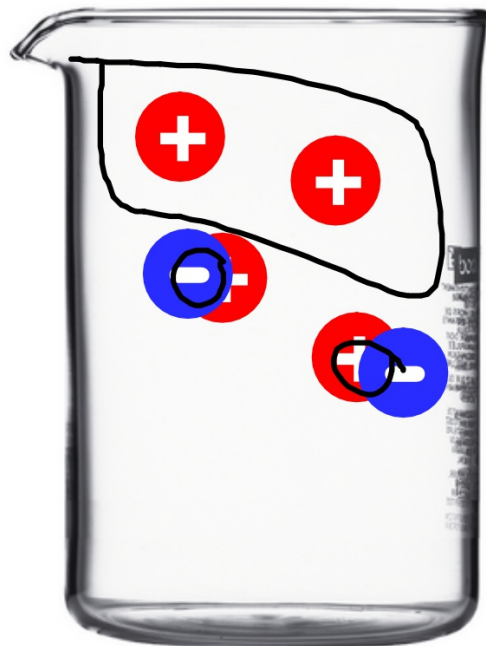


2 **ACTIVITY:** Adding Integers

Work with a partner. Draw a picture to show how you use integer counters to find $4 + (-2)$. $= 2$

 = one positive

 = one negative



In your notes, write a couple sentences explaining how $4 + (-2)$ and $4 - 2$ are connected.

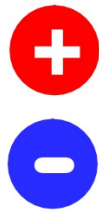
Adding a negative is like subtracting a positive.

They both have the same answer.

They both have the same numbers.

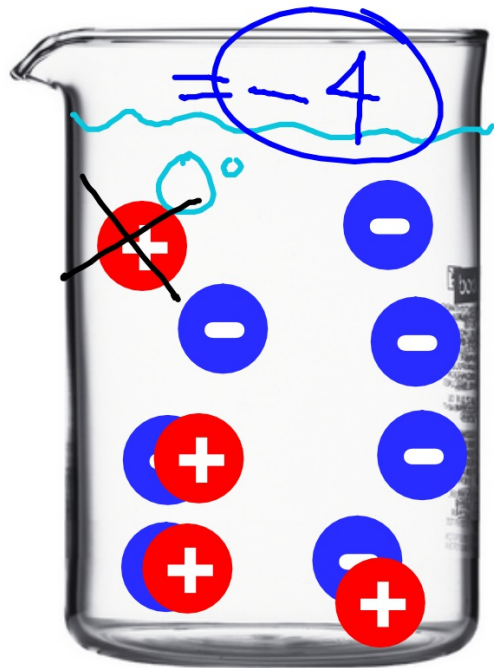
$$-3 + (-1)$$

Add

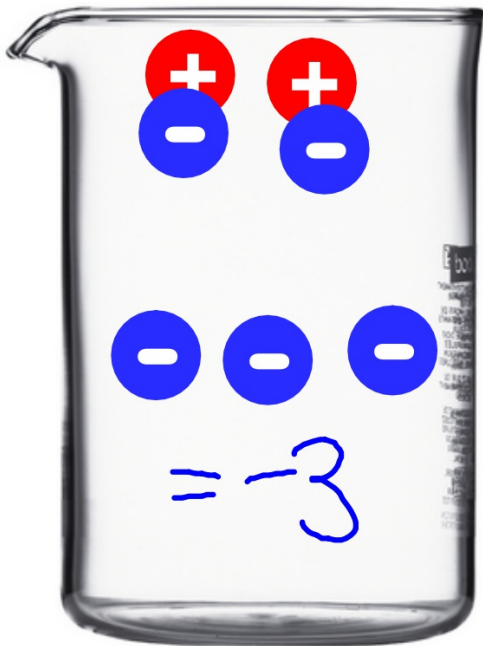
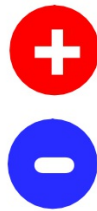


$$-3 - 1$$

take away
positive

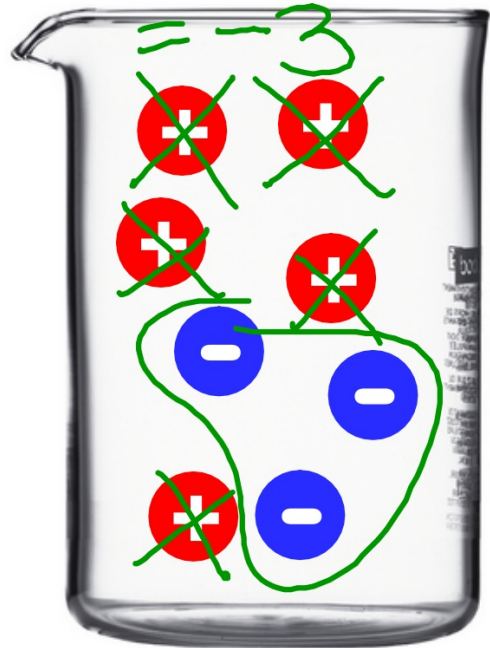


$$2 + (-5)$$

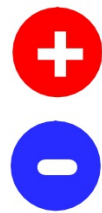


$$2 - 5$$

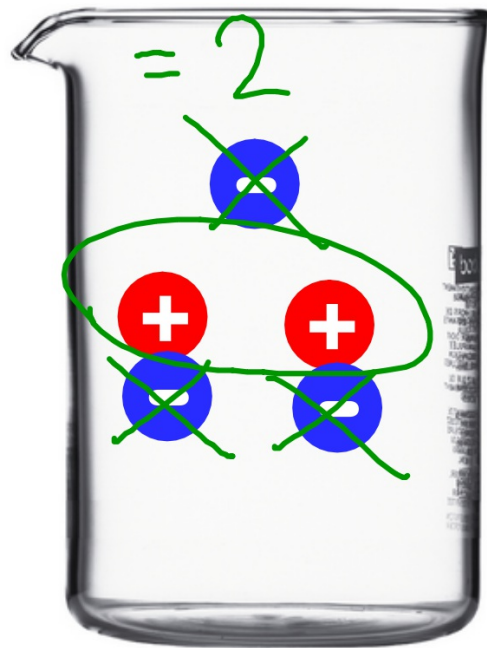
↑
Take away
Positives



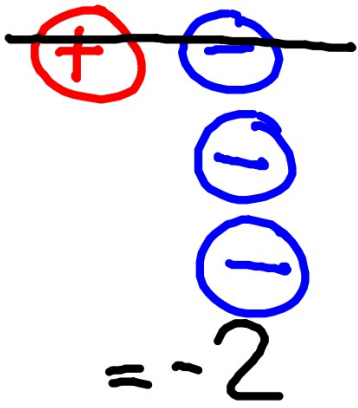
$$-1 + 3$$



$$-1 - (-3)$$

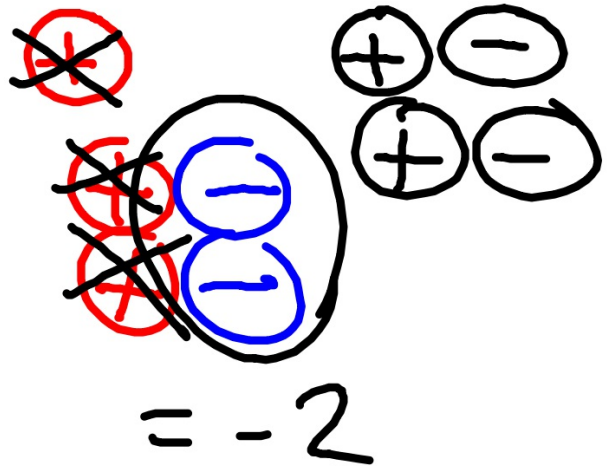


$$1 + (-3)$$



Take away

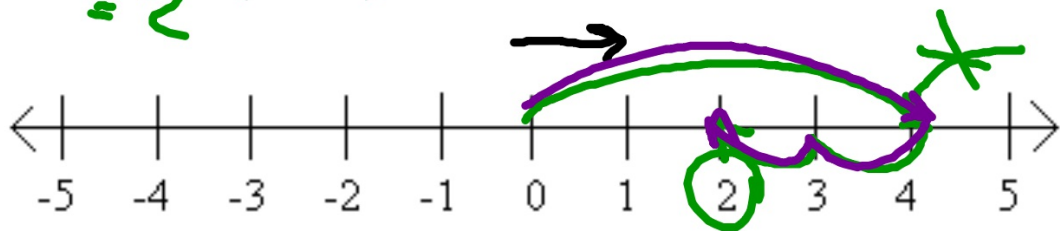
$$1 - 3$$



Number lines:

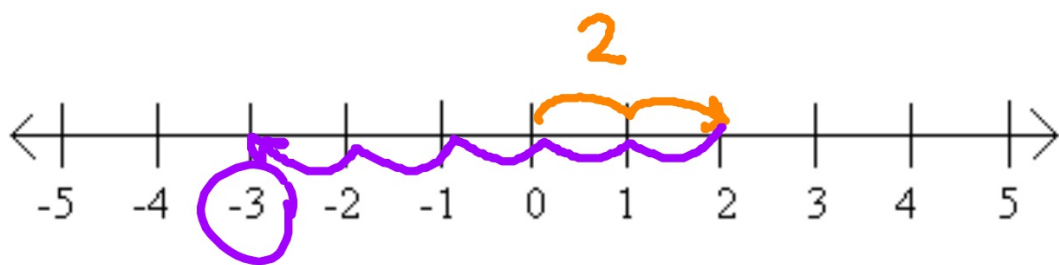
A “-” sign reverses

$4 + (-2)$ normal $4 - 2$
 $= 2$

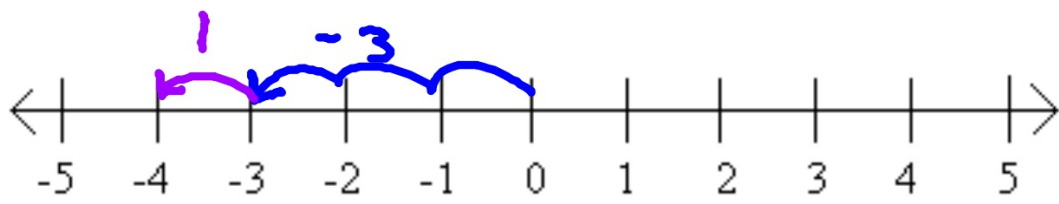


$$2 - 5 = -3$$

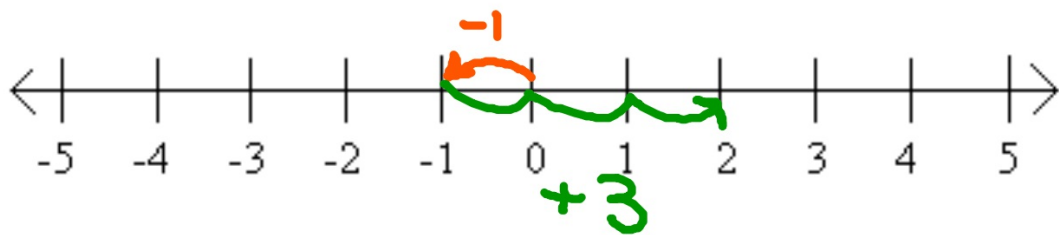
left



$$-3 \overset{\text{left}}{-} 1 = -4$$



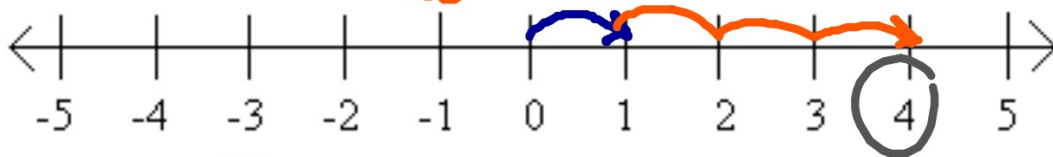
$$-1 \overset{\text{left}}{-} (-3) \overset{\text{reverses}}{=} 2$$



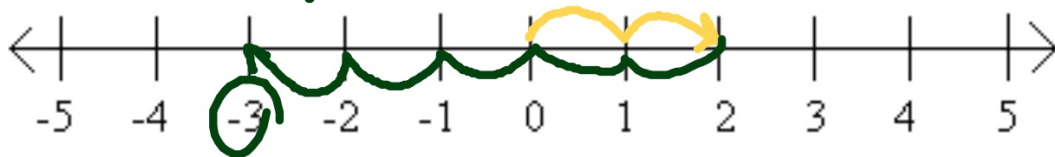
$$-2 \xrightarrow{\text{left} + \text{rev}} (-4) = 2$$



$$1 \xrightarrow{\text{left} + \text{rev}} (-3) = 4$$



$$2 \xrightarrow{\text{left}} 5 = -3$$



Homework

Blue WS4

Due Wednesday

21. $-1 - (-3)$

22. $5 - (-1)$

23. $-3 - 2$

24. $1 - (-3)$

Homework
Blue WS 4
#5-18 All
Due Tuesday