

# September 8, 2014

5<sup>th</sup>  
6<sup>th</sup>

## 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

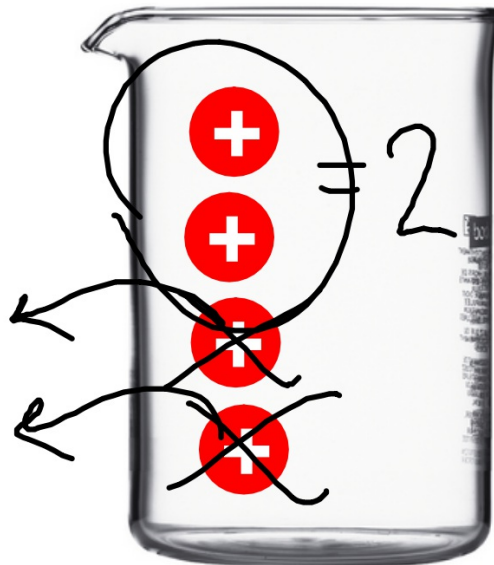
### Integer Counters

#### 1 ACTIVITY: Subtracting Integers

Work with a partner. Draw a picture to show how you use integer counters to find  $4 - 2$ . *positive*  
*positive* ↑ *Take away*

 = one positive

 = one negative

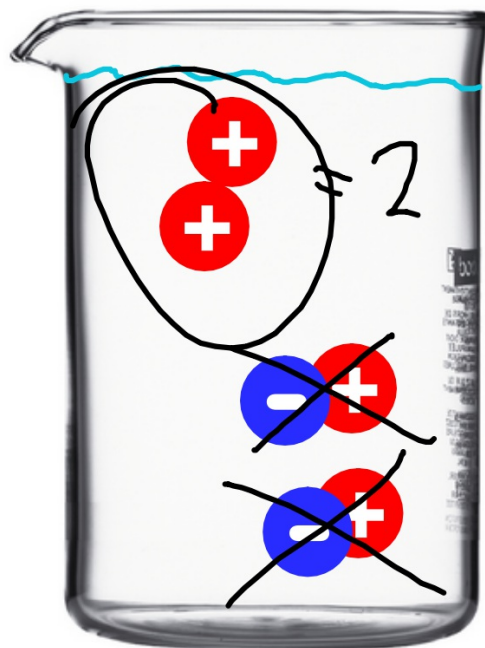


**2** **ACTIVITY:** Adding Integers

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

 = one positive

 = one negative

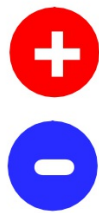
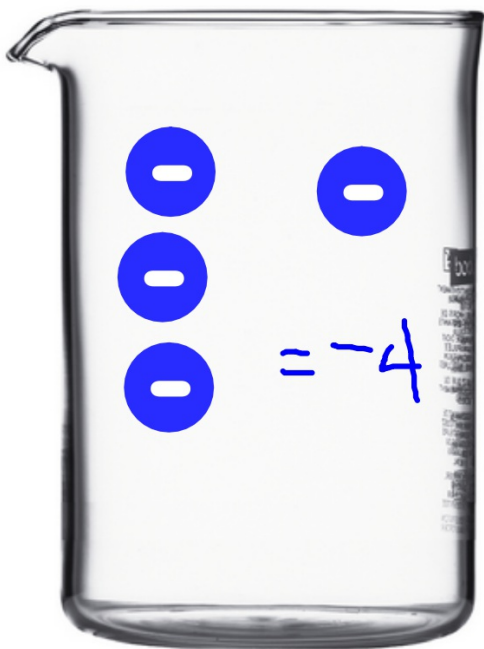


In your notes, write a couple sentences explaining how  $4 + (-2)$  and  $4 - 2$  are connected.

- The answer to both is 2.
- Both cancel 2 from the 4.
- Answers are positive.
- Answers are the same distance from 0.
- Adding  $-2$  is the same as subtracting positive 2.

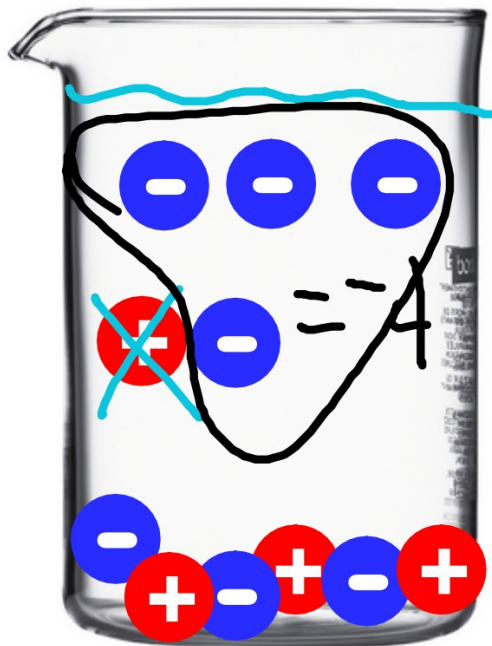
$$-3 + (-1)$$

↑  
put in



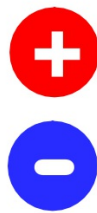
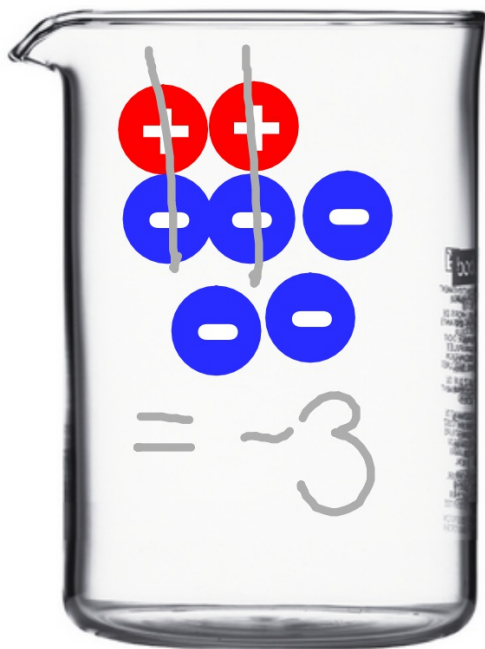
$$-3 - 1$$

↑  
Take out



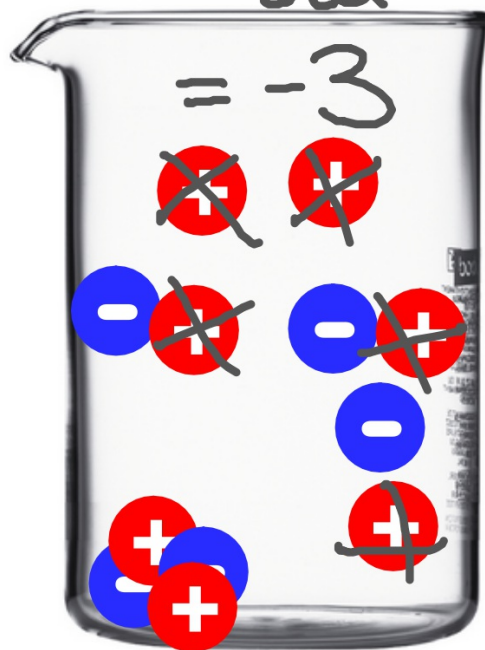
$$2 + (-5)$$

Add  
Put things in

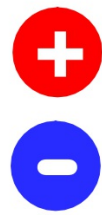
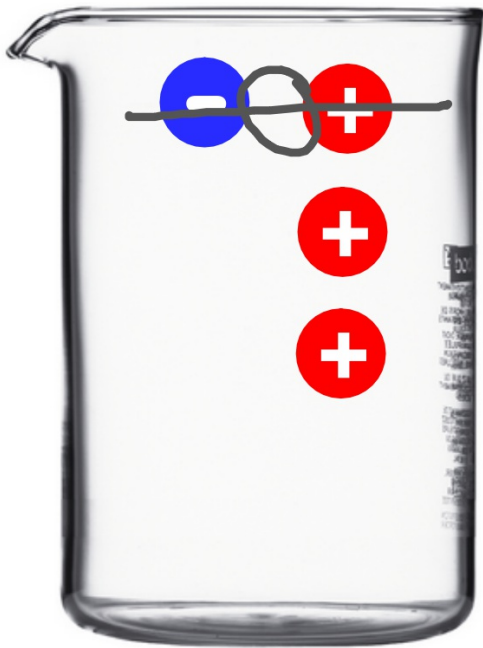


$$2 - 5$$

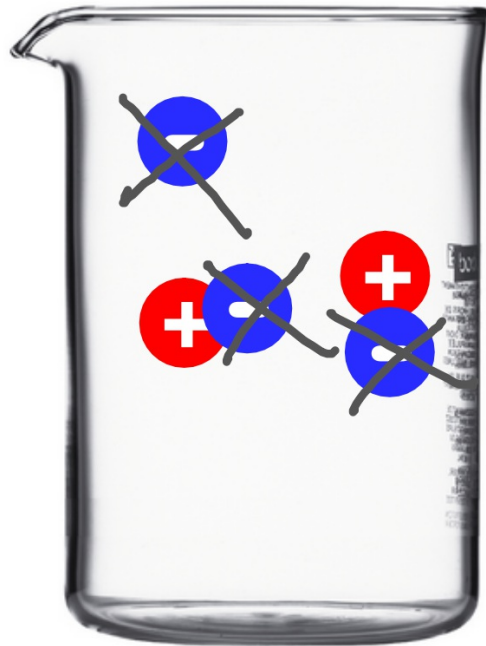
↑  
take things out



$$-1 + 3 = 2$$



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





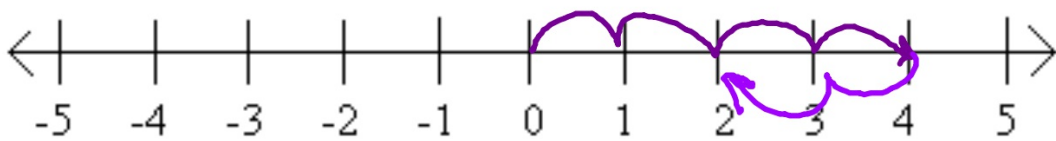
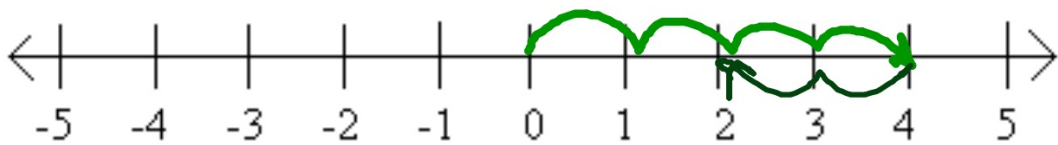
Number lines:

posi — forward  
nega — backward

A “-” sign reverses

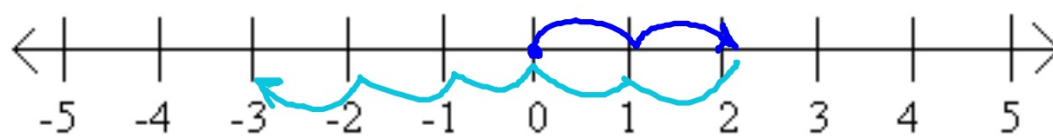
to the Right  
 $4 + (-2)$   
 $= 2$

To the left  
 $4 - 2$   
 $= 2$





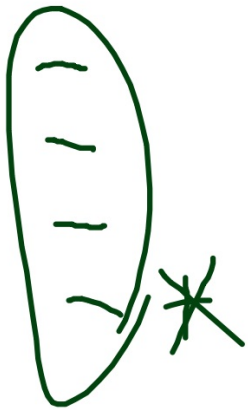
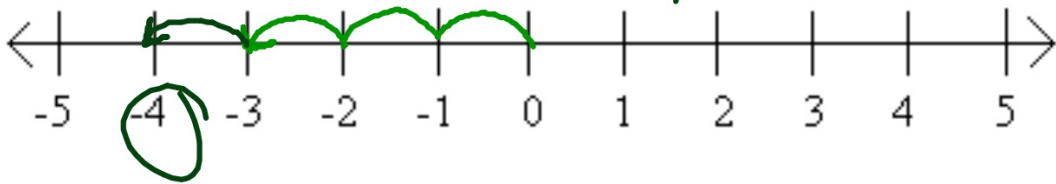
$$2 - 5 = -3$$



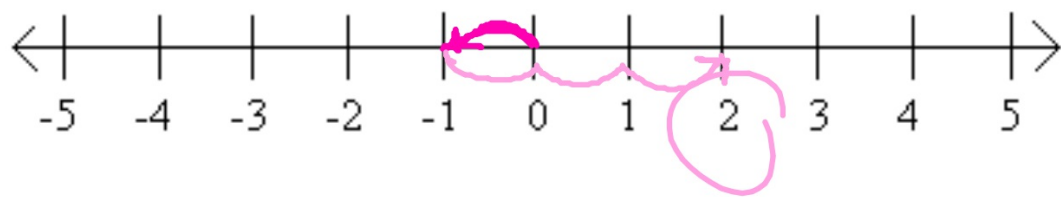
$-3 - 1$

left

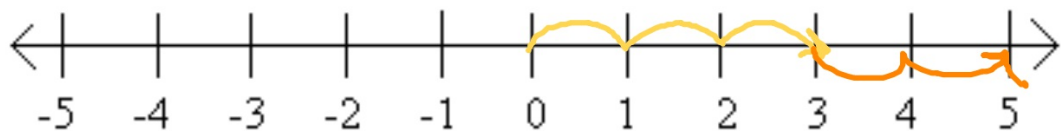
forward



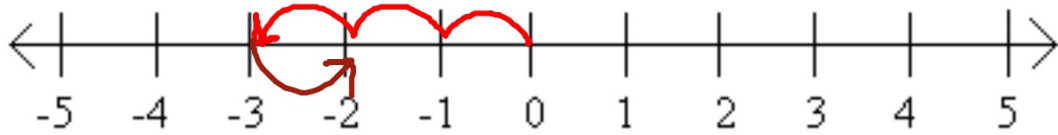
$$-1 - (-3) = 2$$



$$3 - (-2) = 5$$



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



# Homework

Blue WS 4

**Due** Wednesday

21.  $-1 - (-3)$  ) counters

22.  $5 - (-1)$

23.  $-3 - 2$  ) numberlines

24.  $1 - (-3)$