

September 2, 2014 <sup>1<sup>st</sup></sup>  
<sup>2<sup>nd</sup></sup>  
Starter

Clear off your desk  
except a sharpened pencil  
and be ready to go  
when the bell rings.

## 9/2 Adding Integers using Counters and Numberlines

### "Integer Counters"

 = one positive 

 = one negative

$$3 + (-4) = -1$$



**1 ACTIVITY:** Adding Integers with the Same Sign

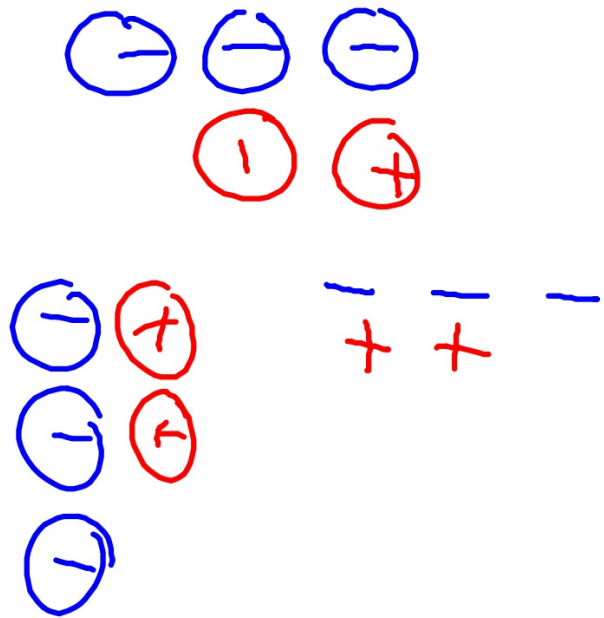
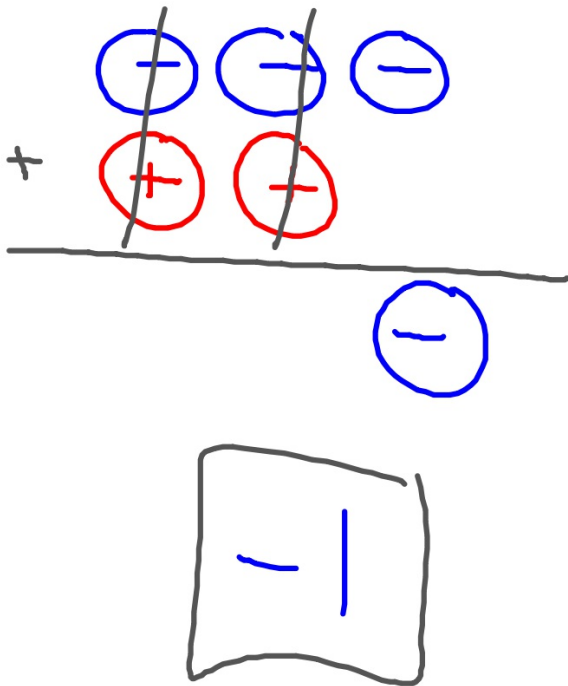
Work with a partner. Draw a picture to show how you use integer counters to find  $-4 + (-3)$ .

The diagram shows a sequence of hand-drawn blue circles, each containing a minus sign. There are four circles on the left, followed by a plus sign, and then three more circles on the right. Below this sequence is an equals sign followed by a minus sign and the number 7.

$$\ominus \ominus \ominus \ominus + \ominus \ominus \ominus = -7$$

**2 ACTIVITY:** Adding Integers with Different Signs

Work with a partner. Draw a picture to show how you use integer counters to find  $-3 + 2$ .



## Number lines

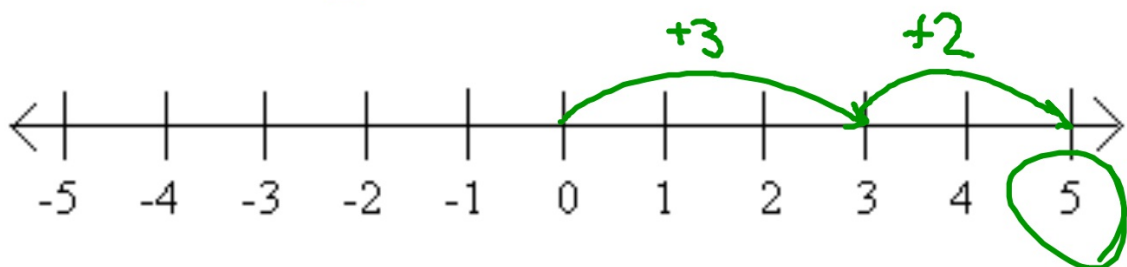


Positive = one to the right



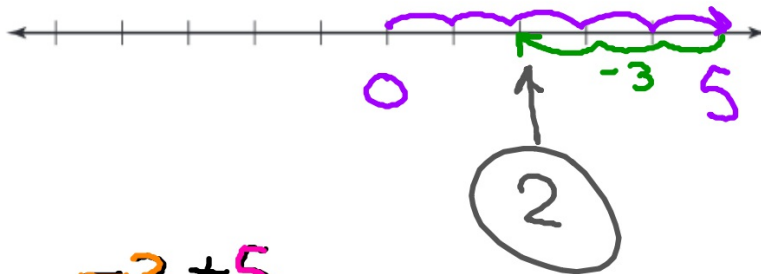
Negative = one to the left

$$3 + 2$$

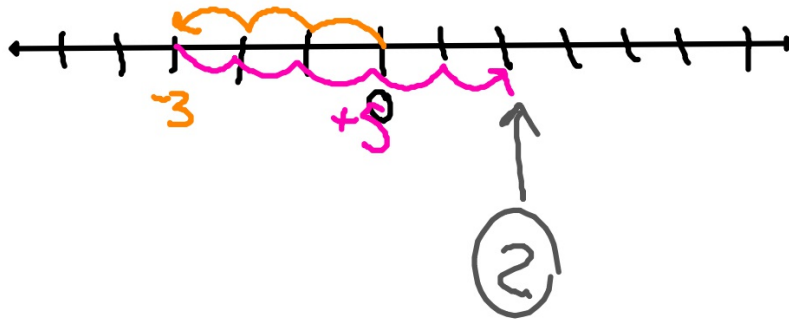


**3** **ACTIVITY:** Adding Integers with Different Signs

Work with a partner. Show how to use a number line to find  $5 + (-3)$ .

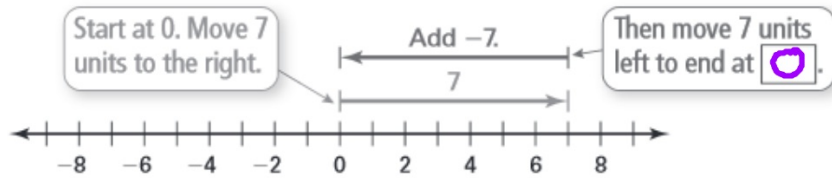


$$-3 + 5$$



**4 ACTIVITY:** Adding Integers with Different Signs

Work with a partner. Write the addition expression shown. Then find the sum.  
How are the integers in the expression related to 0 on a number line?



$$7 + (-7)$$
$$= 0$$

opposites  
"additive inverses"

# Homework

Gold WS3

Due Wednesday