

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.

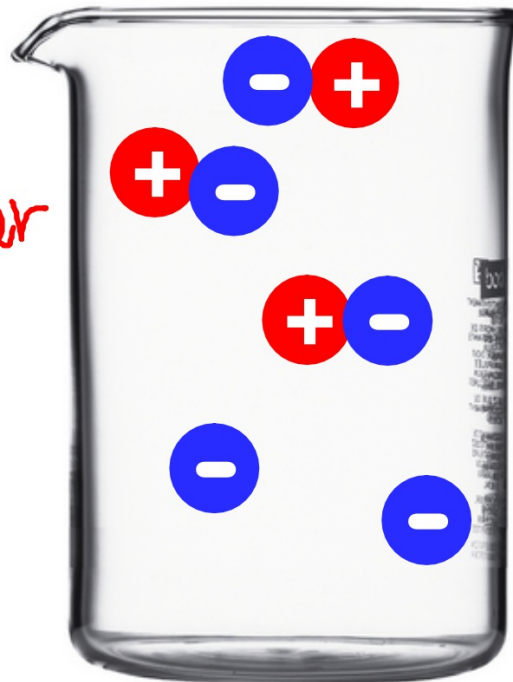
## 9/2 Adding Integers using Counters and Numberlines

$$-5 + 3 = -2$$

### "Integer Counters"

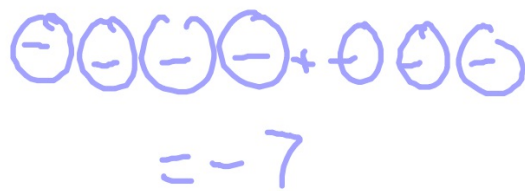
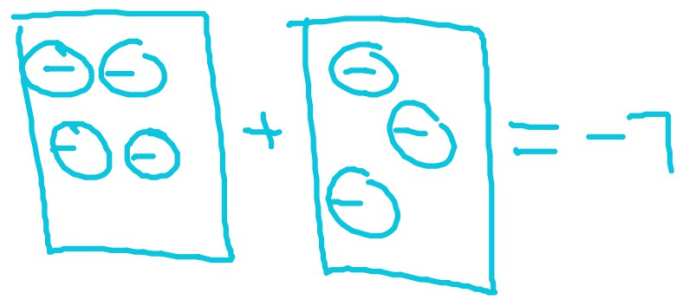
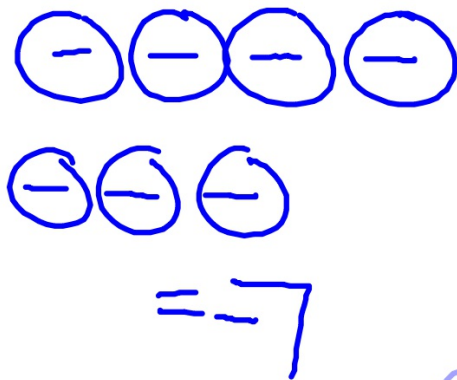
 = one positive  
*one degree warmer*

 = one negative  
*one degree colder*



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

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





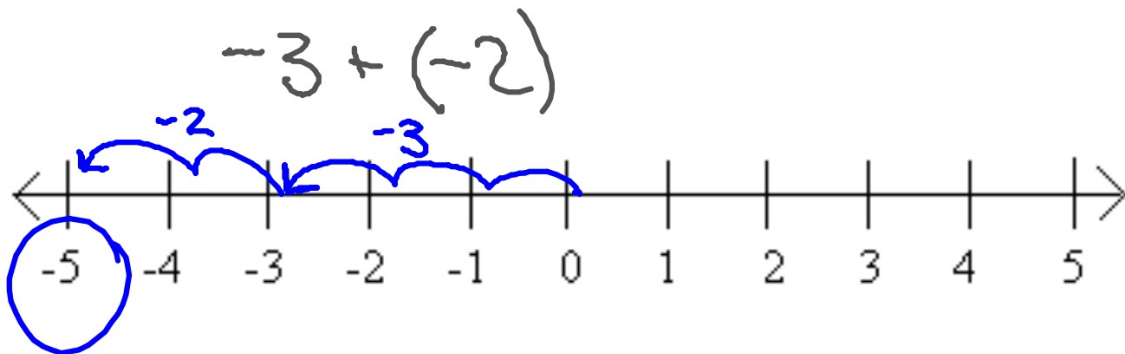
## Number lines



Positive = one to the right

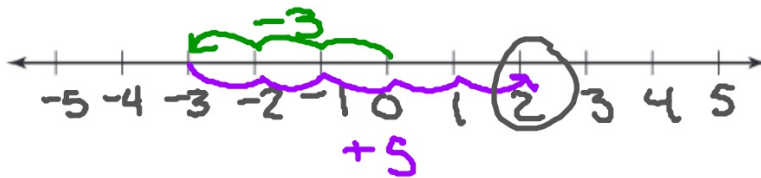


Negative = one to the left



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

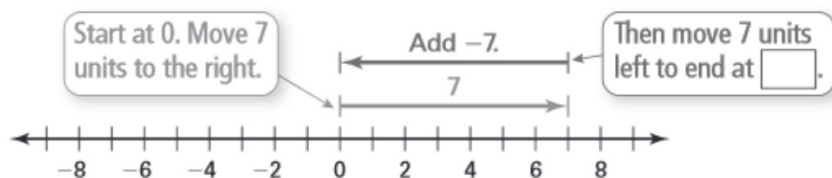
Work with a partner. Show how to use a number line to find  $5 + (-3)$ .



$$\begin{aligned} 5 + (-3) &= 2 \\ &= (-3) + 5 \\ \text{Commutative} \end{aligned}$$

**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