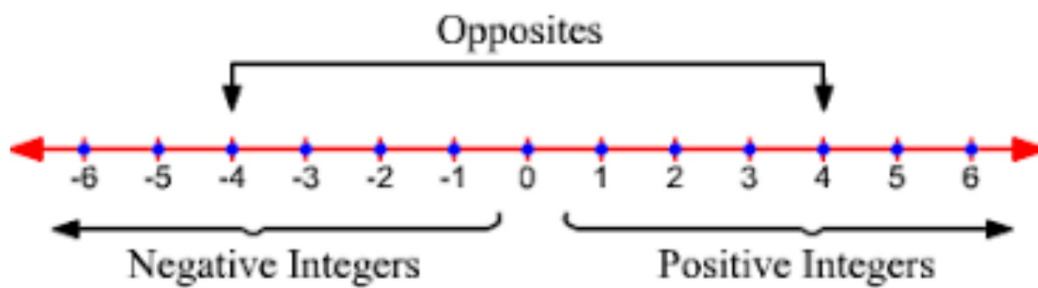


Lesson 1.2 Adding Integers



Today's Goal: Add Integers

Learning Target:

Add Integers (positive & negative numbers)

Four Types of Addition

$$3 + 2$$

Positive + Positive

5

$$-1 + (-3)$$

Negative + Negative

-4

$$4 + (-4)$$

Positive + Negative

0

$$-5 + 2$$

Negative + Positive

-3

There are 4 strategies you can use to Add Integers!

- ✓ ● Integer Chips
- ✓ ● Number Line
 - "Teams"
 - Temperature

Strategy #1: Integer Chips

Zero Sum Pairs  

$$+1 \quad -1 = 0$$


+1


-1

Strategy #1: Integer Chips

Zero Sum Pairs

$3 + 2$

5

$-1 + (-3)$

-4

$4 + (-4)$

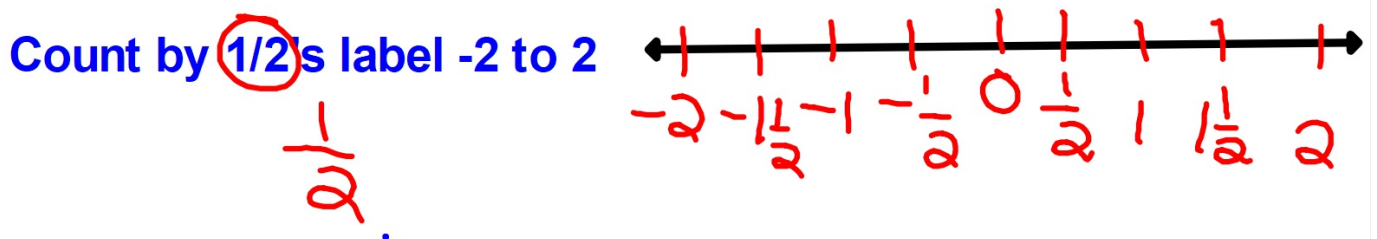
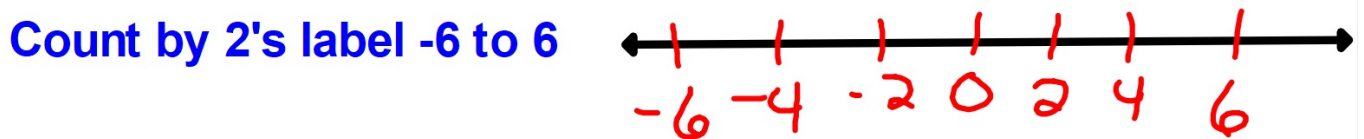
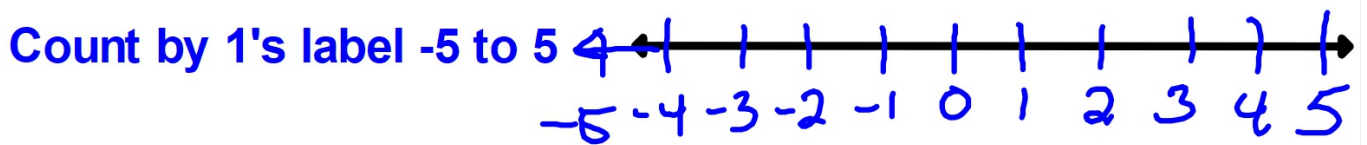
0

$-5 + 2$

-3

Strategy #2

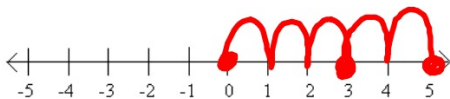
Drawing Number lines



Strategy #2: Number Line

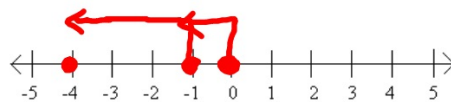


$$\underline{3} + \underline{2}$$



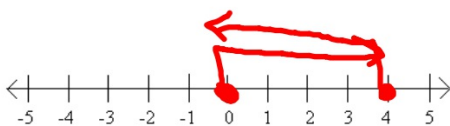
5

$$-1 + (-3)$$



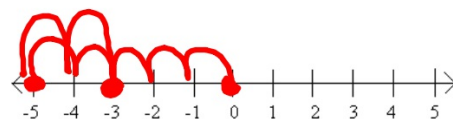
-4

$$4 + (-4)$$



0

$$-5 + 2$$



-3

Strategy #3: Teams! Who Would Win?



$3 + 2$

5

$-1 + (-3)$

-4

$4 + (-4)$

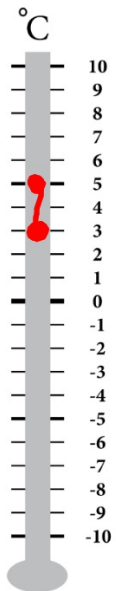
0

$-5 + 2$

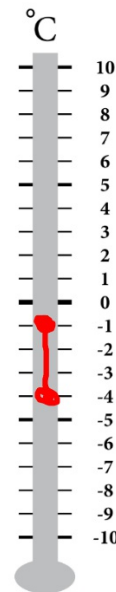
-3

Strategy #4: Temperature.

Now How Cold is it?



$$3 + 2$$
$$5$$



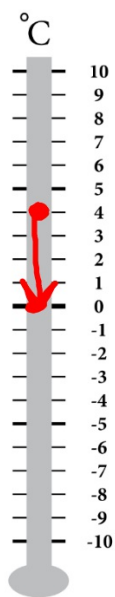
$$-1 + (-3)$$
$$-4$$

Strategy #4: Temperature.

Now How Cold is it?

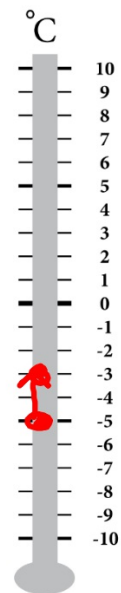
$$4 + (-4)$$

0



$$-5 + 2$$

-3



Talk to your Partner. Find the Sum of each of these

$$7 + 13$$

20

$$- 8 + (- 5)$$

-13

$$- 20 + 15$$

-5

$$9 + (-6)$$

3

Write a rule for adding Two Integers with the SAME Sign

When the signs are the same, add the two Integers and keep the sign the same.

$$-4 + (-3) = -7$$

$$3 + 2 = 5$$

Write a rule for adding Two Integers with DIFFERENT Signs

When the signs are different, find the difference between the two integers. The integer with (the greatest absolute value) determines the sign of the solution. *Big*

$$-3 + 2 = -1$$

$$5 + -3 = 2$$

Solve these problems - compare
your answers with your partner

1. $9 + (-10)$

2. $-4 + 4$

3. $4 + (-7)$

4. $-6 + 8 + (-5)$

$2 + (-5)$

5. $-5 + (-11) + 12 + (-4)$

$-16 + 12 = -4 + (-4)$

-3

-8

HOMWORK

pg 12 & 13

#2-7 all

#16-26 even

#34-46 even

#49



