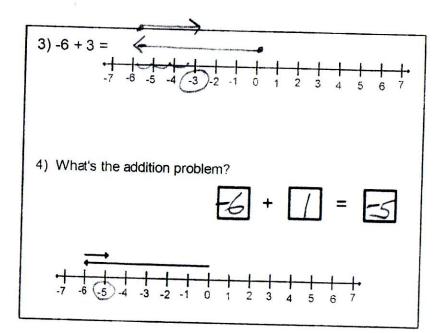
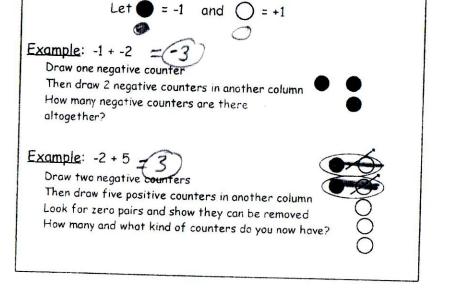
We can add integers using a number line. *Start at 0
*Draw first number's arrow to left if negative & to right if postlive
*Draw second number's arrow above 1st one
*Record where you last arrow ends

1) -4 + -2 =

1) -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7



On a number line, opposites are the same distance from 0 but in different directions from 0. Numbers that are opposites have a sum of 0. An integer and its opposite are. also called additive inverses.



Addition of Integers Modeled with Counters:

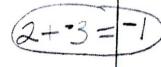
Model these problems with counters:



What addition problems are modeled by these counters?







Addition of More than Two Integers

Think....

*Are there any additive inverses? Oppos! -2+6+7+-6=?

Cross out 6 and -6 since 6 + -6 = 0Different signs, subtract absolute values, answer positive since 7 is the largest absolute value

Since it is all addition, we can change the order (commutative property) and grouping (associative property)

(-3 + -5 + -2) + (8 + 3)

So, Add the negative #'s, Add the positive #'s, then use the addition rule on those two #'s

Addition of Integers Rules Think

Do I have same signs or different signs???

Same Signs

OR

Different Signs

*Add absolute values of numbers

*Attach same sign

*Subtract absolute values

Larger absolute value - smaller absolute value

*Attach sign of number with greatest absolute value

Examples:

Examples:

$$-7 + 2 = -5$$

$$1) - 4 + 11 = 7$$

 $2) - 10 + 2 = -8$

$$3) - 3 + 3 = 0$$