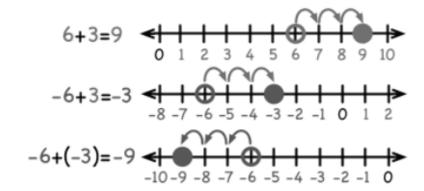
Addition & Subtraction Integer Modeling Lab

PURPOSE: To practice adding and subtracting integers with number lines and algebra tiles (charge method). SOL: 7.3

NUMBER LINES

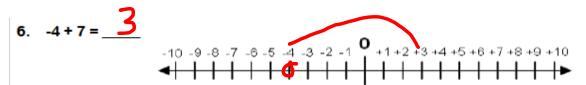
Examples:



Use the below number lines to model the given ADDITION problems:







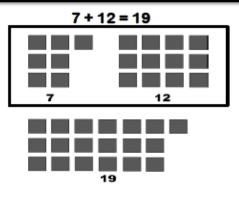
- 7. -7+(-1) = -8 -7 -8 -5 -4 -3 -2 -1 0 +1+2+3+4+5+6+7+8+9+10

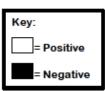
PART TWO - Algebra Tiles/Charge Method

ADDING "SAME" SIGNS: Same sign KEEP the sign and ADD

Example:

COMBINE





Directions:

Draw tiles onto below mats in order to model given problems (you may use "+" signs for positives and "-" signs for negatives:

Adding Two Positives:

Represent 2 + 5 in the mat below.
 2 + 5 =



Represent 8 + 3 in the mat below.
 8 + 3=



Represent 9 + 0 in the mat below.
 9 + 0 = _____



Represent 4 + 6 in the mat below.
 4 + 6= _____



5. What do you notice about all of your above answers?

All positive

6. In the space below, write a rule for adding two positive numbers.

Positive plus positive will be positive

Represent -4 + 9 in the mat to the right. Circle the zero pair(s). How many zero pairs are in the problem? What is the solution to -4+9? Represent 2 + (-3) in the mat to the right. Circle the zero pair(s). How many zero pairs are in the problem? What is the solution to 2 + (-3)? 8. Represent -2 + 8 in the mat to the right. Circle the zero pair(s). How many zero pairs are in the problem? What is the solution to -2 + 8? Represent 3 + (-5) in the mat to the right. Circle the zero pair(s). How many zero pairs are in the problem ? What is the solution to 3 + (-5)?

10. Why are some answers positive and some answers negative?

The abounts of negative and positive are different

- 11. How can you predict the sign of the sum (answer) before you actually "do the math"?
 Whichever sign has more
- 12. Write a rule that works for adding integers with different signs.

The sum will be positive if there are more positives and it will be negative if there are more negatives

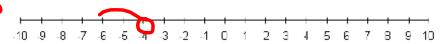
NAME:

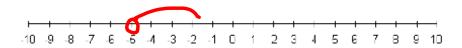
DATE: ____/____

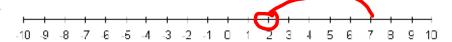
"ADDITION INTEGER MODELING"

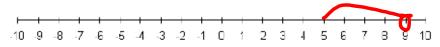
Represent the following problems on the given number lines:

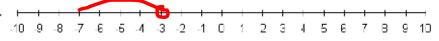


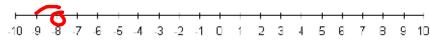




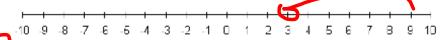


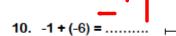


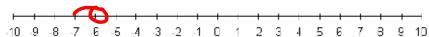












Algebra Tiles/Charge Method Addition

Key: + = Positive

Directions: Draw tiles onto below mats in order to model the given problems:

= = Negative

++++

- - -

+++++

+ + + + +

+ + +

++++++++

- -
