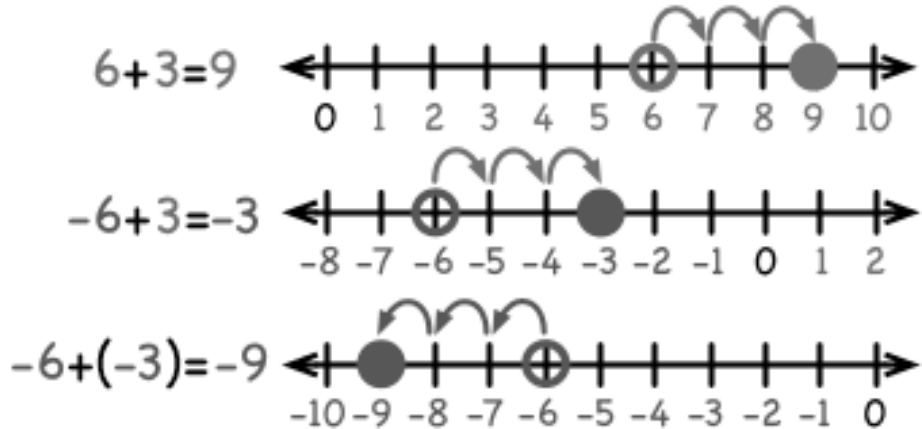


Addition & Subtraction Integer Modeling Lab

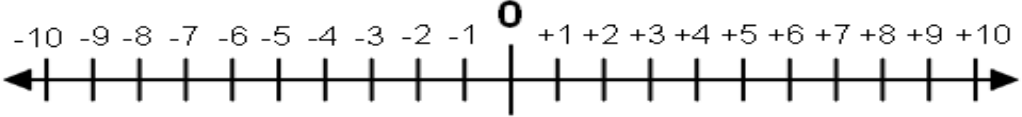
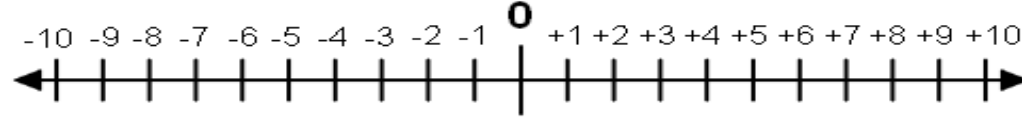
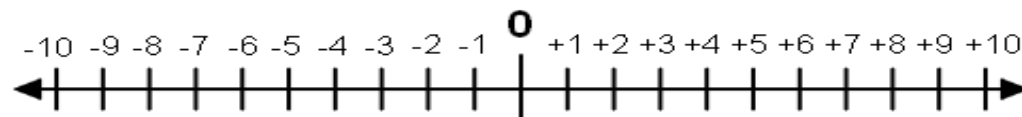
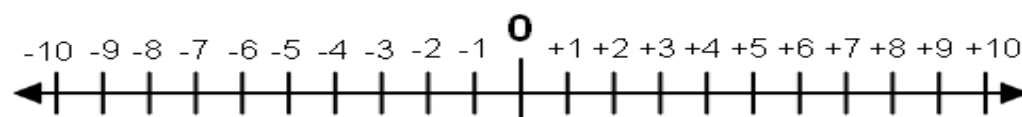
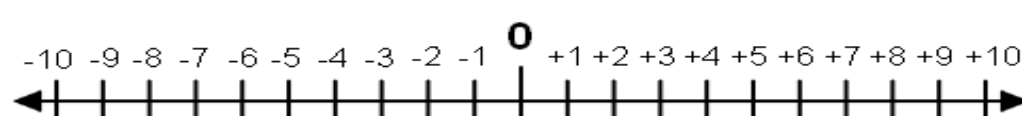
PURPOSE: To practice adding and subtracting integers with number lines and algebra tiles (charge method). **SOL:** 7.3

NUMBER LINES

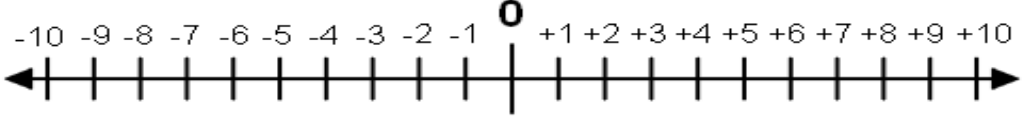
Examples:



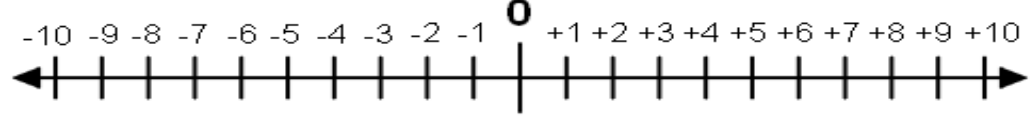
Use the below number lines to model the given ADDITION problems:

1. $4 + 3 =$ _____ 
2. $7 + (-3) =$ _____ 
3. $-6 + (-3) =$ _____ 
4. $-10 + 2 =$ _____ 
5. $-2 + (-6) =$ _____ 

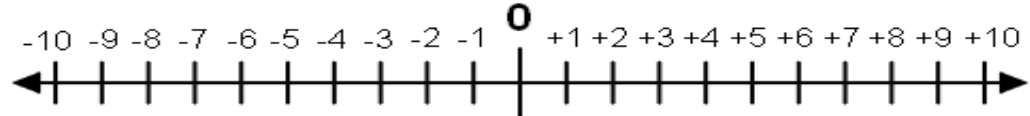
6. $-4 + 7 =$ _____



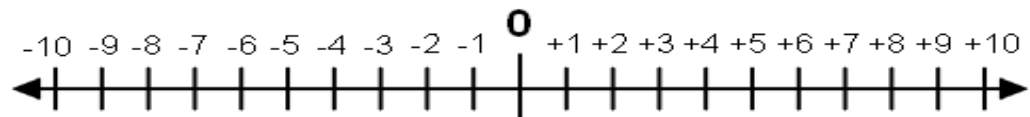
7. $-7 + (-1) =$ _____



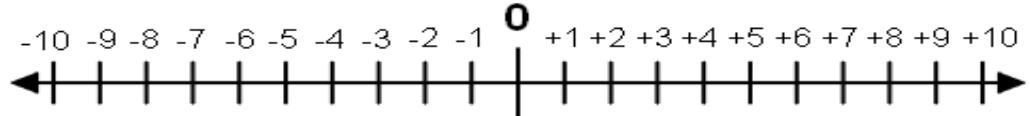
8. $-6 + 8 =$ _____



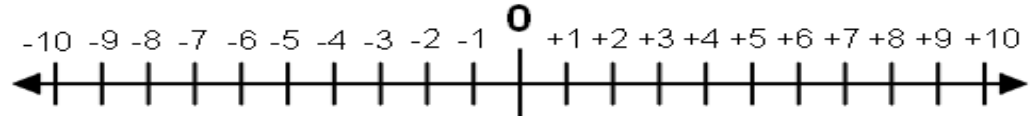
9. $10 + (-8) =$ _____



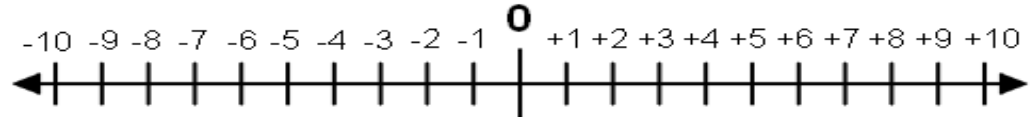
10. $1 + (-5) =$ _____



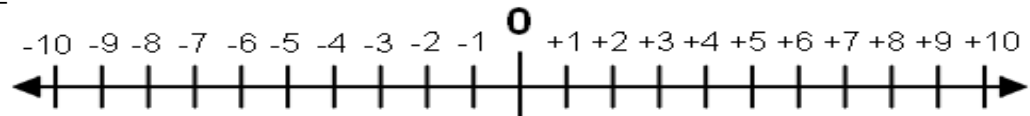
11. $-3 + 0 =$ _____



12. $-9 + (-1) =$ _____



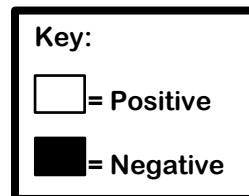
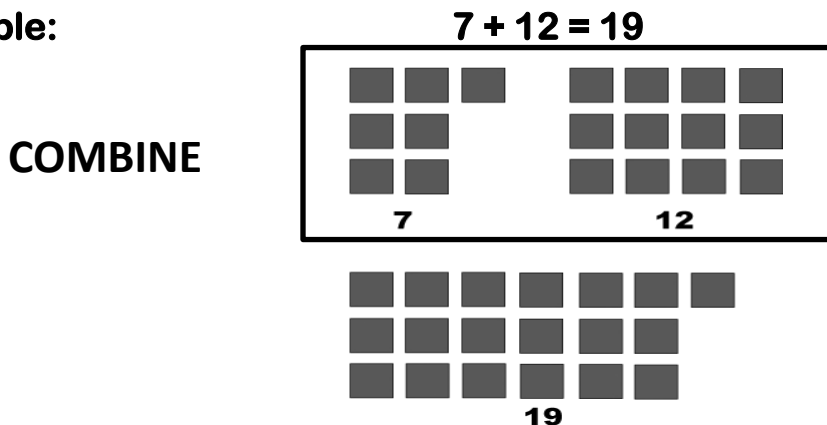
13. $-3 + 9 =$ _____



PART TWO – Algebra Tiles/Charge Method

ADDING “SAME” SIGNS: Same sign KEEP the sign and ADD

Example:



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:

1. Represent $2 + 5$ in the mat below.
 $2 + 5 = \underline{\hspace{2cm}}$



2. Represent $8 + 3$ in the mat below.
 $8 + 3 = \underline{\hspace{2cm}}$



3. Represent $9 + 0$ in the mat below.
 $9 + 0 = \underline{\hspace{2cm}}$



4. Represent $4 + 6$ in the mat below.
 $4 + 6 = \underline{\hspace{2cm}}$



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

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

6. 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 $-4 + 9$? _____

7. 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 $-2 + 8$? _____

9. 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?

11. How can you predict the sign of the sum (answer) before you actually “do the math”?

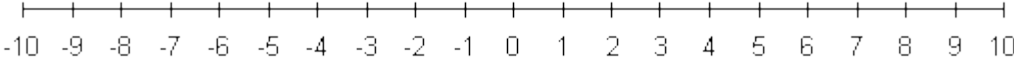
12. Write a rule that works for adding integers with different signs.

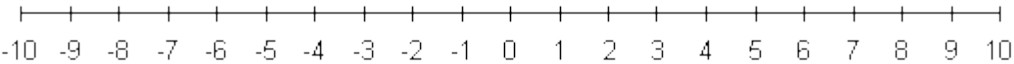
NAME: _____

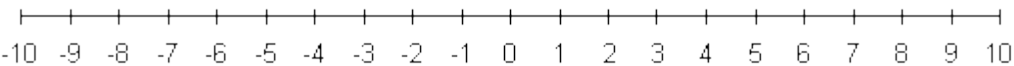
DATE: ____/____/____

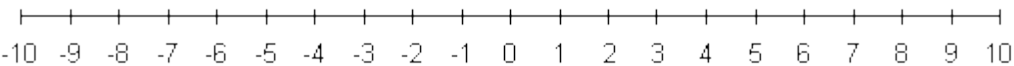
"ADDITION INTEGER MODELING"

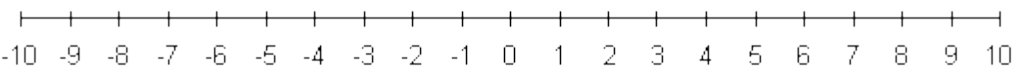
Represent the following problems on the given number lines:

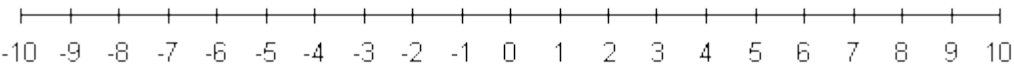
1. $-2 + 6 = \dots\dots\dots$ 

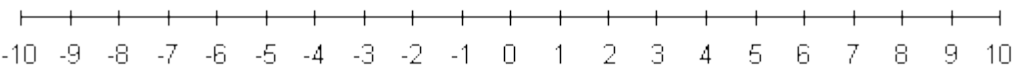
2. $-4 + -2 = \dots\dots\dots$ 

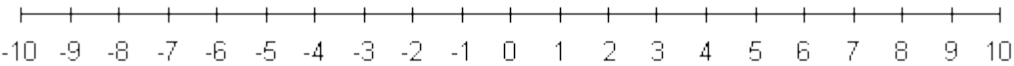
3. $-5 + 3 = \dots\dots\dots$ 

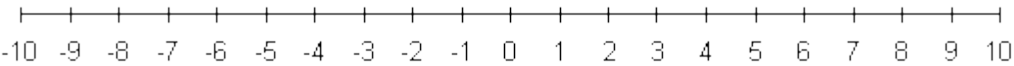
4. $2 + 5 = \dots\dots\dots$ 

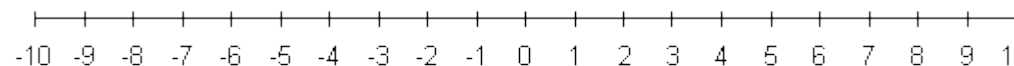
5. $9 + (-4) = \dots\dots\dots$ 

6. $-3 + (-4) = \dots\dots\dots$ 

7. $-8 + (-1) = \dots\dots\dots$ 

8. $5 + (-4) = \dots\dots\dots$ 

9. $3 + 6 = \dots\dots\dots$ 

10. $-1 + (-6) = \dots\dots\dots$ 

Algebra Tiles/Charge Method Addition

Key:

⊕ = Positive

⊖ = Negative

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

1. $4 + (-3) = \underline{\hspace{2cm}}$



2. $-8 + (-4) = \underline{\hspace{2cm}}$



3. $7 + 5 = \underline{\hspace{2cm}}$



4. $-12 + (3) = \underline{\hspace{2cm}}$



5. $9 + (-2) = \underline{\hspace{2cm}}$



6. $-7 + (-6) = \underline{\hspace{2cm}}$

