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Name_	Rey	100000000000000000000000000000000000000	

Date

Mr. Tallman

Math 7

Do Now

Write the opposite of each number on the lines below.

Evaluate each absolute value.

Write an integer for each situation.

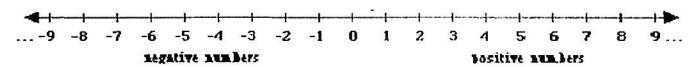
7) You go up 8 floors on an elevator. +8 8) You dive 200 feet into the ocean.

Lesson #2 - Adding Integers Using a Number Line

Recall:

· Integers are Positive or negative whole numbers

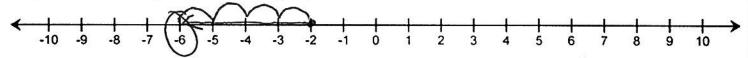
• The zero on the number line is called the Origin



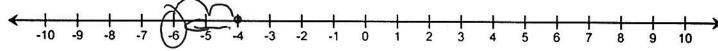
· Zero is neither Positive nor regative.

Example 1)

a) Model the expression -2 + (-4) on the number line below.



b) Repeat the process from part (a) and model (-4) + (-2)

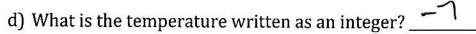


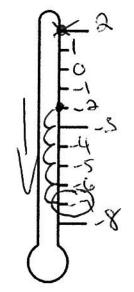
What do you notice about the two sums from parts a and b? they are the Same Do think order matters when adding numbers? __/Vope).

Example 2) The temperature was 2° below zero. The temperature then drops by 5°. What is the temperature now?

- a) What is the original temperature written as an integer?____2°
- b) Mark the temperature on the number line
- c) A drop in temperature of 5° is like adding ______ to the temperature.

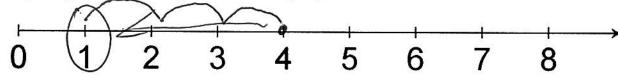
Count the number line to find the final temperature.



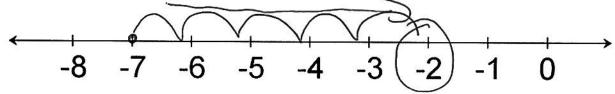


The temperature is now _____ degrees above below zero.

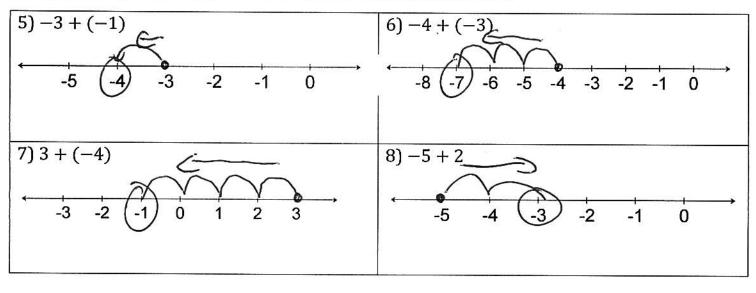
Example 3) Model the expression 4 + (-3) on the number line below.



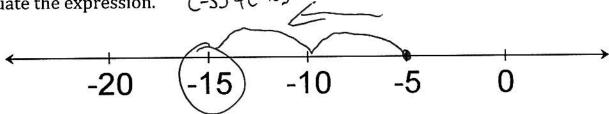
Example 4) Model the expression -7 + 5 on the number line below.



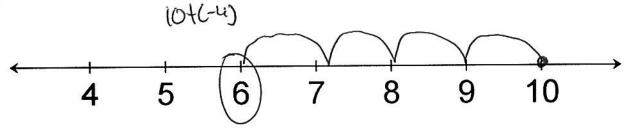
Now, You Try! Model each sum below on the number line.



9) A football team receives a 5 yard penalty on one play and a 10 yard penalty on the next. Write a sum of **negative integers** to represent this situation. Then use the number line to evaluate the expression. (-5) + (-10)

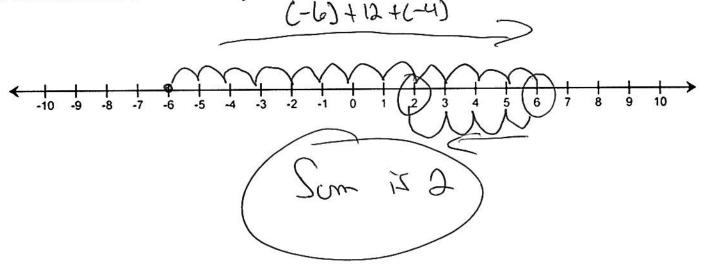


10) Suppose you received \$10 dollars from your grandmother for your birthday. You spent \$4 on snacks. Using addition, how would you write a mathematical expression to express this situation. Then use the number line to evaluate the expression.



Challenge:

David and Victoria were playing a card game. David drew three cards, -6, 12, and -4. What is the sum of his cards? Model your answer on the number line below.



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