

Accentuate the Negative Investigation 1 Review

Name

Key

Date:

Period

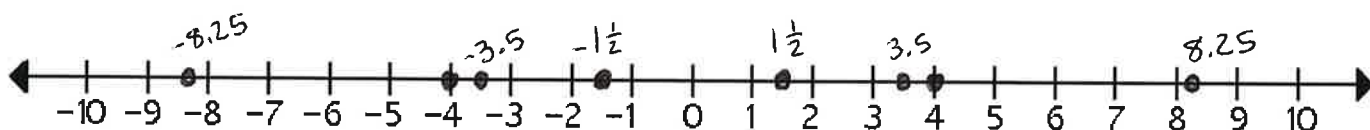
Learning Targets

I can solve addition problems involving rational numbers. MAS ADV MTS APP BEG

Number Lines

For 1 and 2, on the number line below, please plot each of the following rational numbers **and** their opposites.

$-1\frac{1}{2}$, 4, 3.5, 8.25



For 3 and 4, insert $<$, $>$, or $=$ to make a true sentence.

3a). $-9 \leq 9$

3b). $-10 \leq -1$

4a). $-301 \leq -300$

4b). $-2 \geq -14$

5. On the number line below, sketch the values of x when $x > -4$.



← open circle
(not included)

6. On the number line below, sketch the values of x when $x \leq 2$.



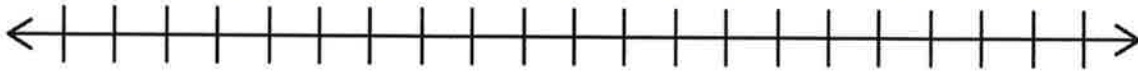
← closed circle
(included)

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In the following problems, be sure to write a complete number sentence. Use the number lines as needed.



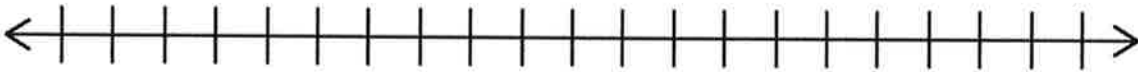
7. In Juneau, Alaska, the temperature was the temperature -18°F . The temperature increased 15°F .



$$\boxed{-3^{\circ}\text{F}}$$

Number sentence: $-18 + 15 = -3$

8. In Lansing, Michigan the temperature was 5°F . It later decreased 26°F .



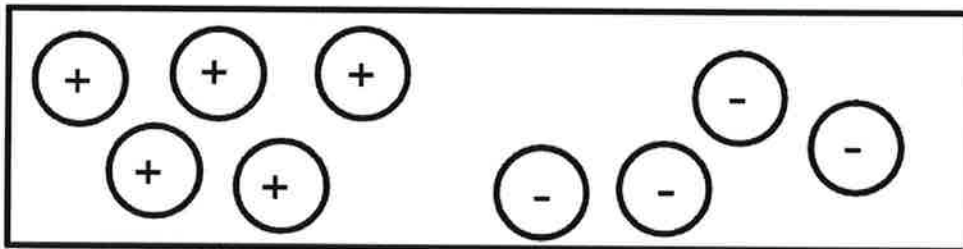
$$\boxed{-21^{\circ}\text{F}}$$

Number sentence: $5 - 26 = -21$

$$5 + -26 = -21$$

Chip Model

For 9-11, Use this chipboard as the starting value for each part.



***Find the total value on each chipboard. Write a number sentence for each part.

9. What is the value of the **original** chipboard?

Number sentence: $5 + -4 = \boxed{1}$

10. What is the value if you **add 2 positive** chips to the original board?

Number sentence: $1 + 2 = \boxed{3}$

11. What is the value if you **remove 3 negative** chips from the original board?

Number sentence: $1 - -3 = \boxed{4}$

For 15, start with only 4 negative chips on the board. Describe in words how you would **subtract 7 negative** chips and write a number sentence that shows your answer.

My number sentence: $-4 - -7 = \boxed{3}$

You have 4 red chips and you need to take away 7 red chips so you add in 3 zero pairs. Once you take away 7 red chips you are left with 3 black chips.