

Lesson Title 1.5 Adding Real Numbers Day 2

Date _____

Real - World Problems

- Highlight or underline key parts
- Cross out useless information for the problem

Task 1:

- a) In Philadelphia, Pennsylvania, the record extreme high temperature is 104°F. Decrease this temperature by 115 degrees, and the result is the record extreme low temperature. Find this temperature.
- $104 - 115 = -11$
- b) If the temperature was -7°F at 6 a.m., and it rose 4 degrees by 7 a.m. and then rose another 7 degrees in the hour from 7 a.m. to 8 a.m., what was the temperature at 8 a.m.?
- $-7 + 4 + 7 = 4^\circ\text{F}$

Find the Opposite Number

Opposites or Additive Inverses: two numbers that are the same distance from 0 but lie on opposite sides of 0

Task 2:

- a) 5 b) -6 c) $\frac{1}{2}$ d) -4.5 e) 0 f) 8 g) 6.2
- -5 6 $-\frac{1}{2}$ 4.5 0 -8 -6.2

Simplify an Expression (no =)

Task 3:

- a) $-(-10)$ b) $-(-\frac{1}{2})$ c) $-(-2x)$ d) $-|-6| = (-b)$
- 10 $\frac{1}{2}$ $2x$ -6

Summary:

a positive number
 a negative number
 n
 0
 Opposites
 $-n$

- Two numbers that are the same distance from 0 but lie on opposite sides of 0 are called opposites.
- If n is a number, then $n + (-n) = \underline{-n}$.
- If n is a number, then $-(-n) = \underline{n}$.
- The sum of two negative numbers is always a negative number.

(Additive Inverse)

Still need help with: