Pre-Algebra

Lesson 1.5

Adding Integers

Goal: to add integers using a number line and without a number line.

Use the number line to show how to add the following:

-3 + 7 = 4

-1 + (-7) = -8

2 + 4 = 6

6 + -7 = -1
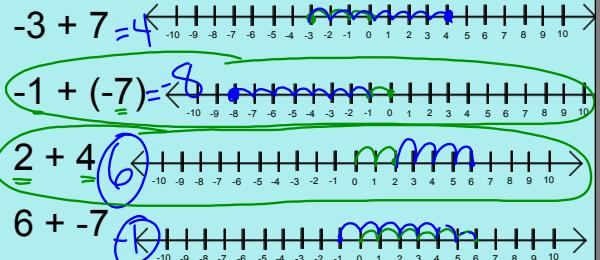
Here we are adding a negative and a positive integer. How do the arrows show what the sign will be?
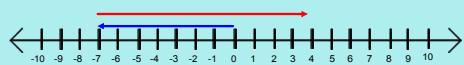
Rules for adding numbers:

same sign- Keep the sign, Add the values

different signs- Keep sign of larger + then Sub. the values

opposite numbers- equals 0

$3 + (-3) = 0$

$(-5) + 5 = 0$

Find the sum:

-41 + 26 $\begin{array}{r} \overset{3}{4}1 \\ -26 \\ \hline 15 \end{array}$

-15

-19 + (-11) -30

52 +(-30) + (-46) -24
-30

22   46
       -22

A scuba diver studying marine life is 4 feet below sea level. She goes 72 feet lower to reach the ocean floor and then rises 61 feet. Where is this diver relative to sea level?
(try a vertical number line)

$\boxed{-15'}$ -4
            -15
            +6
            -76
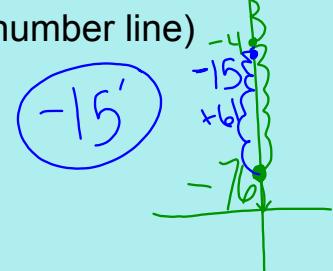
Evaluate when a = -18 and b = -3

-18
a + (-8)

-26

-18 -3
a + b + 30

-21 + 30

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pg. 31-33

#13, 14-30(4th), 32, 34, 35, 38, 41, 45, 46, 48, 54