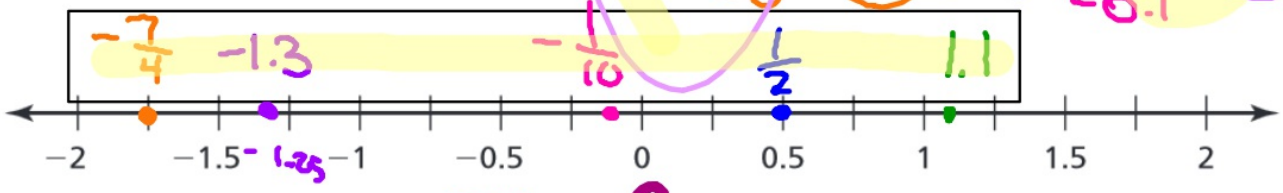
# OCTOBER 13 2014

5TH
6TH

## STARTER

1. Put these numbers in increasing order.

$-\frac{7}{4}$, $1.1$, $\frac{1}{2}$, $-\frac{1}{10}$, $-1.3$




2. Change to a fraction.

$-0.84$

$= -\frac{84 \div 2}{100 \div 2}$

$= -\frac{42 \div 2}{50 \div 2}$

$= -\frac{21}{25}$

3. Change to a decimal.

$-\frac{7}{4}$

$= -1.75$

# 10/13 Adding Rational Numbers - Decimals

Reminder: what is the definition of a "rational number"?

a number that can be written as a ratio of 2 integers

FRACTION

$2.1 = 2\frac{1}{10}$ $42.76 = 42\frac{76}{100}$

Are the rules for adding/subtracting decimals and fractions with positives and negatives any different than the rules for adding integers?

No!

# Remember the sign rules:

## Adding:

Same Signs:
*Add the numbers*
*Keep the sign*

$-2+(-3)=-5$

Different Signs:
*Subtract the numbers*
*Keep the sign of the biggest #*

$-2+3=1$

$2+(-3)=-1$

## Subtracting:

Change the subtract to add
Change the sign of the second #

$-2+3=-5$

"Add the opposite"
Change/change

$2+(+3)=5$

## What do you do with the decimal...

$$-1.3+4.75$$

...setting up the problem?

- Line up the decimals!
- Write the biggest # on the top.

$$\begin{array}{r} +\ 4.75 \\ -\ 1.30 \\ \hline \end{array}$$

...when writing the answer?

"Bring it straight down!"

$$\begin{array}{r} 4.75 \\ -\ 1.30 \\ \hline 3.45 \end{array}$$

## Compute each:

$15+(-3.8)+-9.2$

change / change FIRST!

$-9.2$
$-3.8$
$-13.0$

$+15$
$-13$
$2$

$-8+(+9.2)+1.8$

$+9.2$
$+1.8$
$+11.0$

$+11$
$-8$
$3$

## Compute each:

$7.23 + (+4) + (-6.61)$

$+7.23$
$+4.00$
$+11.23$

$+11.23$
$-6.61$
$4.62$

$-13.4 + -5.7 + 9.75$

$-13.4$
$-5.7$
$-19.1$

$-19.10$
$+9.75$
$-9.35$

# HOMEWORK

# DUE