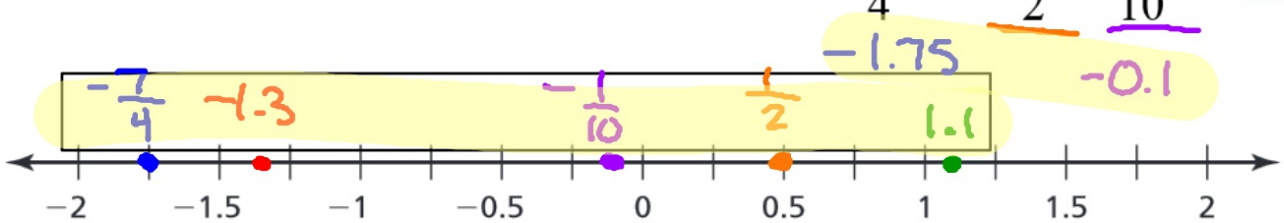


OCTOBER 13, 2014 4TH

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.

5,6 → 2
3,4 → 1

$$-0.84 = -\frac{84}{100} \div 2 = -\frac{42}{50} \div 2 = -\frac{21}{25}$$

3. Change to a decimal.

$$-\frac{7}{4} = -1.75$$

$$4 \overline{) 7.00} \\ \underline{4} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0$$

10/13 Adding Rational Numbers - Decimals

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

a # that can be written as a fraction using 2 integers.

$$3.2 = 3\frac{2}{10} \quad 4.75 = 4\frac{75}{100}$$

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

No! Exactly the same

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
largest # on the top

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

...when writing the answer?

3.45
Bring the decimal
straight down

Compute each:

$$15 + (-3.8) - 9.2$$

$$-8 - (-9.2) + 1.8$$

Homework
due Tuesday

Compute each:

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HOMEWORK

DUE