

OCTOBER 8, 2014 ^{1ST} _{2ND} STARTER

This watch is quite useless since it gains 6 minutes every hour. I used satellite to set it at midnight and it now shows 8:26 am. If I know it stopped 30 minutes ago, what is the correct time now?



10/8 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.

↳ a comparison of 2 integers (to, :, fraction)

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 it up!!!

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

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

Largest
must
be on the
TOP

...when writing the answer?

3.45

Bring it straight
down.

Compute each:

~~whole #. 0~~

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

$$\begin{array}{r} -3.8 \\ -9.2 \\ \hline -13.0 \end{array} \quad \begin{array}{r} +15.0 \\ -13.0 \\ \hline 2 \end{array}$$

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

$$\begin{array}{r} +9.2 \\ +1.8 \\ \hline +11.0 \end{array} \quad \begin{array}{r} +11.0 \\ -8 \\ \hline 3 \end{array}$$

Compute each:

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

$$-13.4 - 5.7 + 9.75$$

HOMEWORK

DUE