

# OCTOBER 8, 2014 <sup>1<sup>ST</sup></sup> <sub>2<sup>ND</sup></sub> 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.  
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*

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

Different Signs:

*Subtract the numbers*

*Keep the sign of the biggest #*

$$-2 + 3 = |$$

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

### 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

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

Write the  
largest #  
on the top

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

...when writing the answer?

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

Compute each:

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

$$\begin{array}{r} -3.8 \\ -9.2 \\ \hline -13.0 \end{array} \quad \begin{array}{r} -13 \\ +15 \\ \hline 2 \end{array}$$

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

$$\begin{array}{r} +9.2 \\ +1.8 \\ \hline +11.0 \end{array} \quad \begin{array}{r} +11 \\ -8 \\ \hline 3 \end{array}$$

Compute each:

$$\cancel{7.23} + (+4) + (\cancel{-6.61})$$

$$\begin{array}{r} \cancel{7.23} \\ -6.61 \\ \hline + 0.62 \\ \hline \end{array} \quad \begin{array}{r} + 4.00 \\ + 0.62 \\ \hline \end{array}$$

4.62

$$-13.4 + -5.7 + 9.75$$

$$\begin{array}{r} -13.4 \\ -5.7 \\ \hline -19.1 \end{array} \quad \begin{array}{r} -19.10 \\ + 9.75 \\ \hline \end{array}$$

-9.35

# **HOMework**

Green WS2

**DUE** Monday