

OCTOBER 7, 2014

5TH
6TH

STARTER

1. $5 \overline{) 8.0}$

$1 \overline{) 5.0}$

$1 \overline{) 3.0}$

$1 \overline{) 0.0}$

1 R.3

1.6

2. $11 \div 4$

$2 \frac{3}{4}$

$2 \text{ R. } 3$

$4 \overline{) 11}$

$4 \overline{) 11.00}$

3. $18 \div 7$

$2 \text{ R. } 4$

$7 \overline{) 18}$

2.5714285711

$7 \overline{) 18.00000}$

14

40

35

50

49

19

30

28

20



10/7 - Rational Numbers

Review of last chapter:

With your partner, come up with a definition for **integer**?

Positive/negative whole numbers
and 0

A **rational number** is a number that can be written as the ratio of two integers.

$$2 = \frac{2}{1}$$

$$-3 = \frac{-3}{1}$$

$$-\frac{1}{2} = \frac{-1}{2}$$

$$0.25 = \frac{1}{4}$$

$$-\frac{1}{2} = \frac{-1}{2} = \frac{1}{-2}$$

Work with your partner and order these numbers from least to greatest:

$$-0.5, 1.25, -\frac{1}{3}, 0.5, -\frac{5}{3}$$

$$-\frac{5}{3}, -0.5, -\frac{1}{3}, 0.5, 1.25$$

What difficulties did you have?	What did you have to recall from last year?	What would have made it easier?
<p>Mixing decimals with fractions.</p> <p>Explaining WHY</p> <p>Changing fractions to decimals</p>	<p>Long division</p>	<p>All whole #'s</p> <p>Knowing \div</p> <p>Knowing # lines</p> <p>Knowing how to change fr \rightarrow Deci</p>

Remember:

Decimals → Fractions

$$\begin{aligned} 0.84 &= \frac{84}{100} \div 2 \\ &= \frac{42}{50} \div 2 \\ &= \frac{21}{25} \end{aligned}$$

Fractions → Decimals

$$\frac{5}{8}$$

bottom $\overline{)$ top

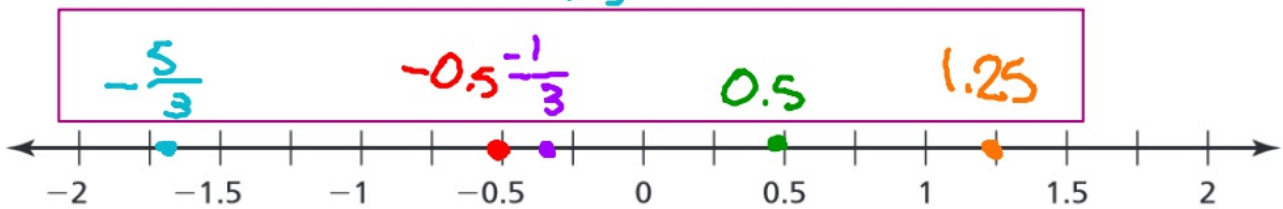
$$\begin{array}{r} 8 \overline{) 5.000} \\ \underline{4} \\ 10 \\ \underline{8} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

**SAY IT
WRITE IT
SIMPLIFY IT**

Now try it again:

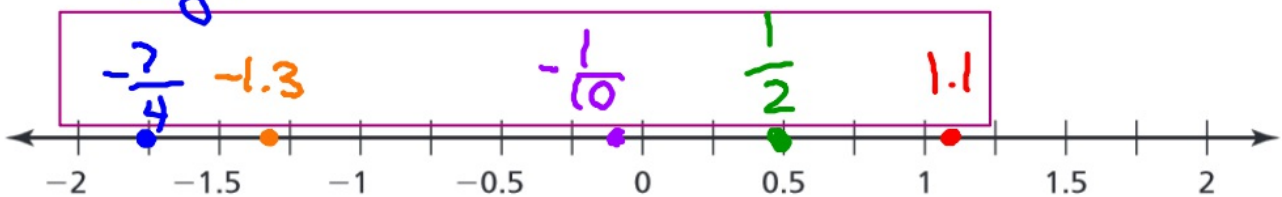
Work with your partner and order these numbers from least to greatest:

a. $-0.5, 1.25, -\frac{1}{3}, 0.5, -\frac{5}{3}$



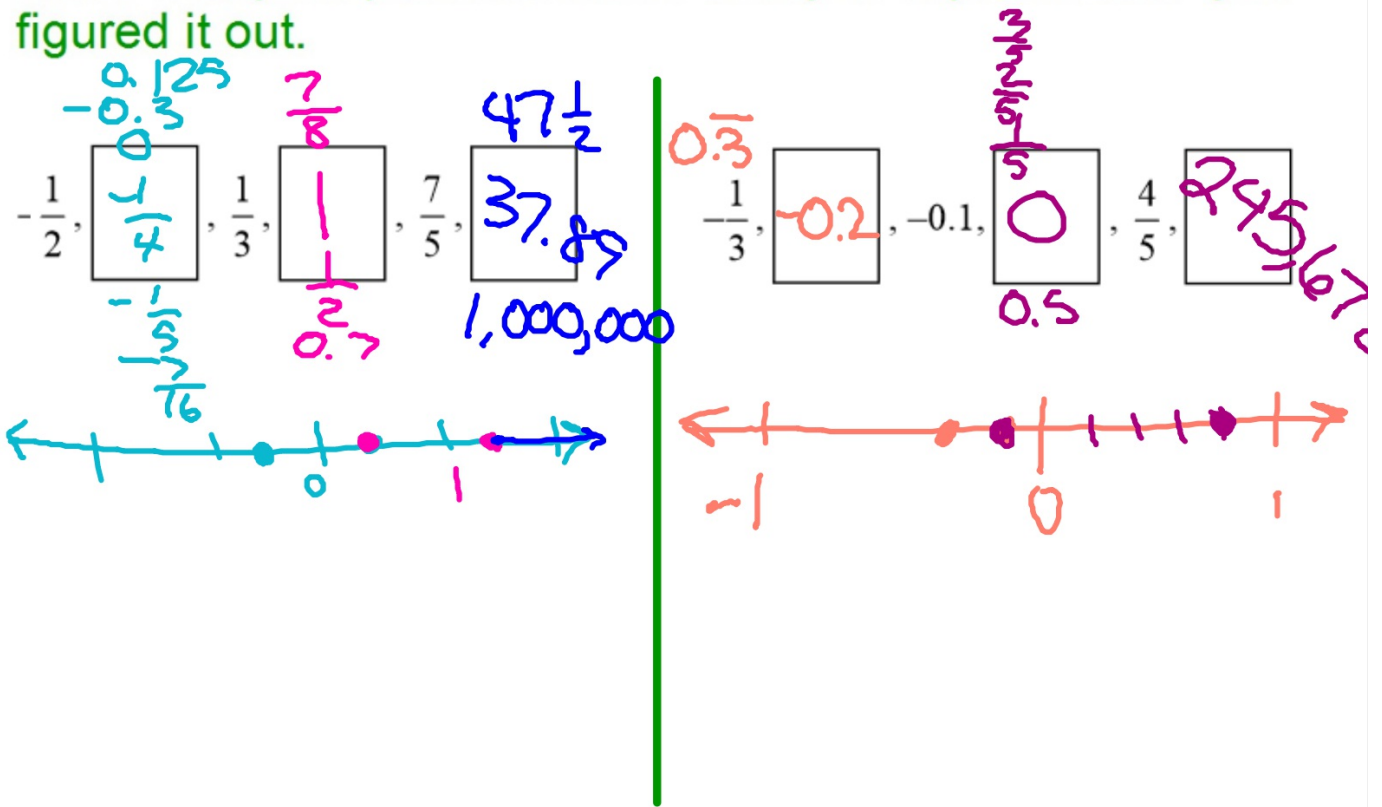
b. $-\frac{7}{4}, 1.1, \frac{1}{2}, -\frac{1}{10}, -1.3$

Handwritten calculations and conversions:
 $4 \overline{) 7.00} = 1.75$
 $-\frac{7}{4} = -1.75$
 $-\frac{1}{10} = -0.1$
 $\frac{1}{2} = 0.5$
 1.1



The numbers are in order from least to greatest. Fill in the blank spaces with rational numbers.

Work with your partner and be ready to explain HOW you figured it out.



HOMEWORK

Pink WS1

DUE Monday