

OCTOBER 7, 2014

4th

STARTER

1. $5 \overline{) 8.0}$

$\boxed{1.6}$

$1 \text{ R. } 3$

$1 \frac{3}{5}$

$$\begin{array}{r} 5 \overline{) 8.0} \\ \underline{-5} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

2. $11 \div 4$

$$\begin{array}{r} 2.75 \\ 4 \overline{) 11.00} \\ \underline{-8} \\ 30 \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

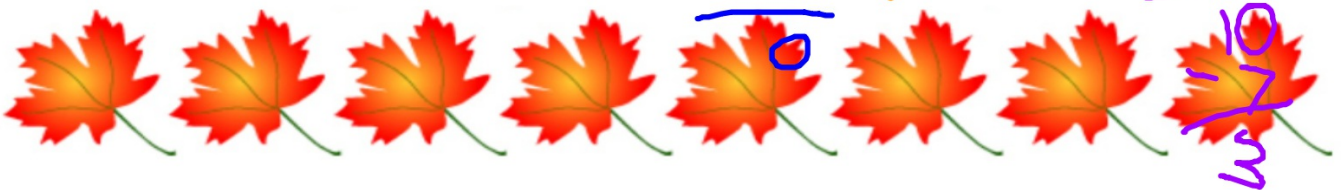
$2 \text{ R } 3$

$2 \frac{3}{4}$

3. $-18 \div 7$

$$\begin{array}{r} -2.571... \\ 7 \overline{) 18.000} \\ \underline{-14} \\ 40 \\ \underline{-35} \\ 50 \\ \underline{-49} \\ 10 \end{array}$$

$2 \frac{5}{7}$



10/7 - Rational Numbers

Review of last chapter:

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

Positive or negative whole number
and zero

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 , ~~$-\frac{5}{3}$~~ = $-\frac{1\frac{2}{3}}$
 $-\frac{5}{3}$, -0.5 , $-\frac{1}{3}$, 0.5 , 1.25

Handwritten notes:
 $-\frac{1}{3} \rightarrow 0.\bar{3}$
 $-\frac{5}{3} \rightarrow -1.\bar{6}$

What difficulties did you have?	What did you have to recall from last year?	What would have made it easier?
<p>Fractions \rightarrow Deci Neg. Fractions Decimals & Fr.</p>	<p>Fractions \rightarrow Decimals Mixed #'s \rightarrow fractions Decimal rules</p>	<p>No fractions All decimals No negatives No improper fractions</p>

Remember:

Decimals → Fractions

$$\begin{aligned} 0.\underline{24} &= \frac{24}{100} \div 2 \\ &= \frac{12}{50} \div 2 \\ &= \frac{6}{25} \end{aligned}$$

**SAY IT
WRITE IT
SIMPLIFY IT**

Fractions → Decimals

$$\frac{5}{8}$$
$$\begin{array}{r} 8 \overline{) 5.0000} \\ \underline{-48} \\ 20 \\ \underline{-16} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

bottom) *top*

Now try it again:

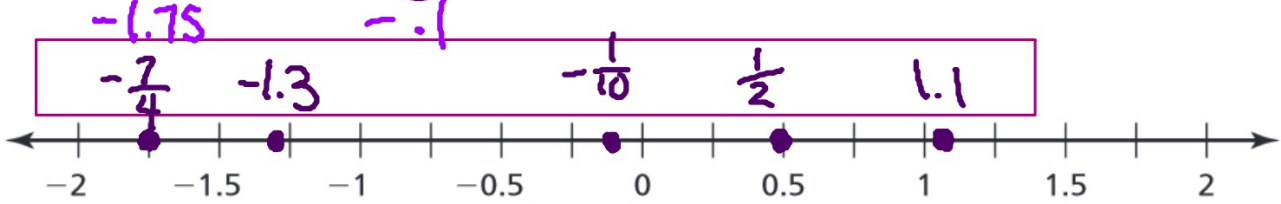
Work with your partner and order these numbers from least to greatest:

$$\begin{array}{r} 1.75 \\ 4 \overline{) 7.00} \\ \underline{4} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

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~~



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.

$$-\frac{1}{2}, \boxed{-\frac{1}{4}}, \frac{1}{3}, \boxed{\frac{1}{2}}, \frac{7}{5}, \boxed{\frac{7}{4}}$$

0
704
 $39\frac{1}{2}$
86.75

$$-\frac{1}{3}, \boxed{-0.2}, -0.1, \boxed{0.3}, \frac{4}{5}, \boxed{2.5}$$

$-\frac{1}{5}$
0
0.8
 $3\frac{1}{5}$
999999...

HOMEWORK

DUE