

October 10, 2011

^{No}
Warm-Up:

~~Put each set of numbers in order from least to greatest.~~

oops!
I forgot.

Get out your homework:

YELLOW Review Worksheet
#1-60 all

52
~~50~~

	From	To
10	57	60
9	51	56
8	45	50
7	39	44
6	33	38
5	27	32
4	21	26
3	15	20
2	9	14
1	3	8
0	0	2

10/10 - Rational Numbers

Review of last chapter:

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

positive/negative whole #

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

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

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

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

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

fraction

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

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

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

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

$-0.5, 1.25, -0.333..., 0.5, -1.666...$

A diagram showing the conversion of fractions to decimals. Arrows point from the original numbers to their decimal equivalents: a purple arrow from -0.5 to -0.5 , a red arrow from 1.25 to 1.25 , a green arrow from $-\frac{1}{3}$ to $-0.333...$, an orange arrow from 0.5 to 0.5 , and a pink arrow from $-\frac{5}{3}$ to $-1.666...$.

What difficulties did you have?

Mix of decimals + fractions
hard to compare if they're different
fractions are hard

What did you have to recall how to do from last year?

Changing fractions to decimals

What would have made it easier?

all decimals

Remember:

Decimals \longrightarrow Fractions

$$.45 = ?$$

$$\frac{45}{100} = \frac{9}{20}$$

Reduce completely

Fractions \longrightarrow Decimals

$$\frac{3}{8} = ?$$

$$\begin{array}{r} .375 \\ 8 \overline{) 3.000} \\ \underline{-24} \\ 60 \\ \underline{-56} \\ 40 \end{array}$$

bottom $\overline{) \text{top.0}}$

Now try it again:

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

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

\swarrow \downarrow \downarrow \downarrow \downarrow

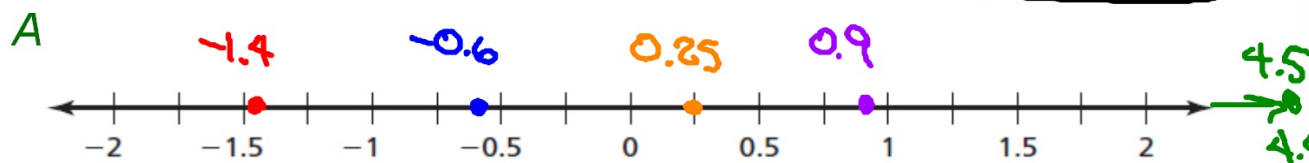
-1.75 1.1 0.5 -0.1 -1.3

B $-1.4, -\frac{3}{5}, \frac{9}{2}, \frac{1}{4}, 0.9$

\swarrow \downarrow \downarrow \downarrow \downarrow

$-1.4, -0.6, 4.5, 0.25, 0.9$

$-1.4, -\frac{3}{5}, \frac{1}{4}, 0.9, \frac{9}{2}$



B

Homework:

Worksheet 2.1 Practice A #1-23 all

Due tomorrow

2.1 Practice A

Write the rational number as a decimal.

1. $\frac{5}{9}$

2. $-\frac{3}{8}$

3. $-\frac{3}{11}$

4. $\frac{7}{30}$

5. $1\frac{5}{12}$

6. $-2\frac{1}{3}$

7. $-\frac{13}{22}$

8. $5\frac{1}{6}$

Write the decimal as a fraction or mixed number in simplest form.

9. 0.7

10. -0.3

11. -0.43

12. 0.52

13. 1.25

14. -2.07

15. 4.18

16. 3.125

Order the numbers from least to greatest.

17. $1.6, -\frac{2}{3}, -0.5, \frac{3}{2}, -\frac{5}{2}$

18. $\frac{3}{4}, -1.7, 0.6, -\frac{7}{4}, 1.1$

19. $0, -\frac{2}{5}, 0.67, \frac{7}{9}, -0.5$

20. $-\frac{1}{3}, -0.3, \frac{4}{3}, 1.2, -\frac{3}{2}$

21. You receive two quarters, one dime, and four pennies back in change.

a. Write the amount as a decimal.

b. Write the amount as a fraction in simplest form.

22. In football, a completion percentage is the number of completions divided by the number of passes. Does Tom or Ian have a higher completion percentage?

Player	Passes	Completions
Tom	22	10
Ian	18	9

23. You get 17 out of 22 questions correct on a math test.

a. What is your percent of correct answers?

b. The lowest score to pass is 70%. Did you pass the test?

c. What is the minimum number of correct answers needed in order to pass the test?