Curriculum Outcome

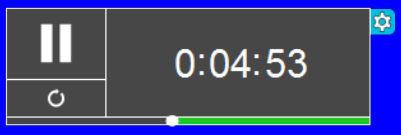
N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

Student Friendly:
How to identify a rational numbers and how to write a rational number

Sep 7-2:50 PM

Quiz Day

Separate your desk



Sep 12-8:23 AM

Number systems

Natural Numbers	N
Whole Numbers	W
Integers	I
Rational	Q
Irrational	$\overline{Q}$
Real	R

Mar 20-7:21 PM

Warm Up

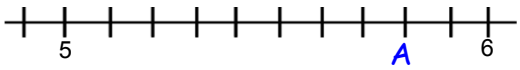
Write $\frac{4}{5}$ as a decimal.

What is a rational number?

You must be specific about three things!

State two rational numbers between -5.4 and -5.5

Express A as a mixed fraction.



Write two equivalent fractions!

$\frac{-8}{9}$

Oct 31-3:53 PM

Warm Up

Write $\frac{4}{5}$ as a decimal.

4 ÷ 5

= 0.8

What is a rational number?

You must be specific about three things!

fraction

→ decimals that end

→ decimals that repeat

State two rational numbers between -5.4 and -5.5

-5.40

-5.50

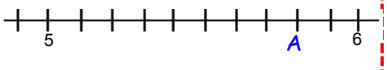
-5.41

-5.42

⋮

-5.49

Express A as a mixed fraction.



Write two equivalent fractions!

$\frac{-8}{9}$

$-\frac{8}{9}$

$\frac{8}{-9}$

Oct 31-3:53 PM

Rational Numbers

- any number that can be written as fraction

- any number that ends

- any decimal number that repeats

Sep 10-10:59 AM

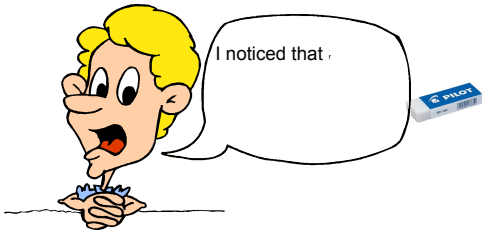
Use a calculator to determine the value of each rational number.

$-\frac{7}{5}$ =

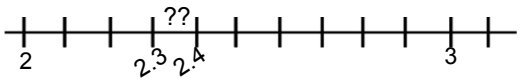
$-\frac{7}{5}$ =

$-\frac{7}{5}$ =

What did you notice??



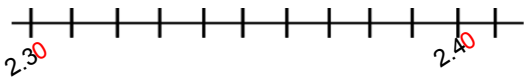
Oct 26-10:22 PM



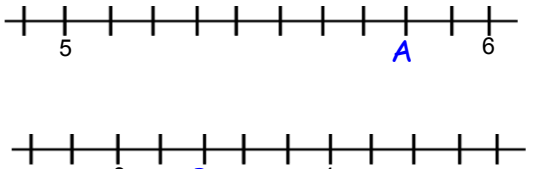
Hint... Add a zero place holder at the end of the decimal.

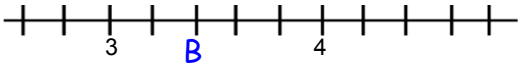
2.30

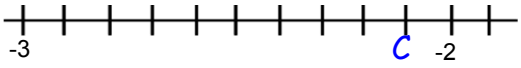
2.40

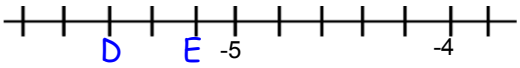


Oct 27-8:02 PM

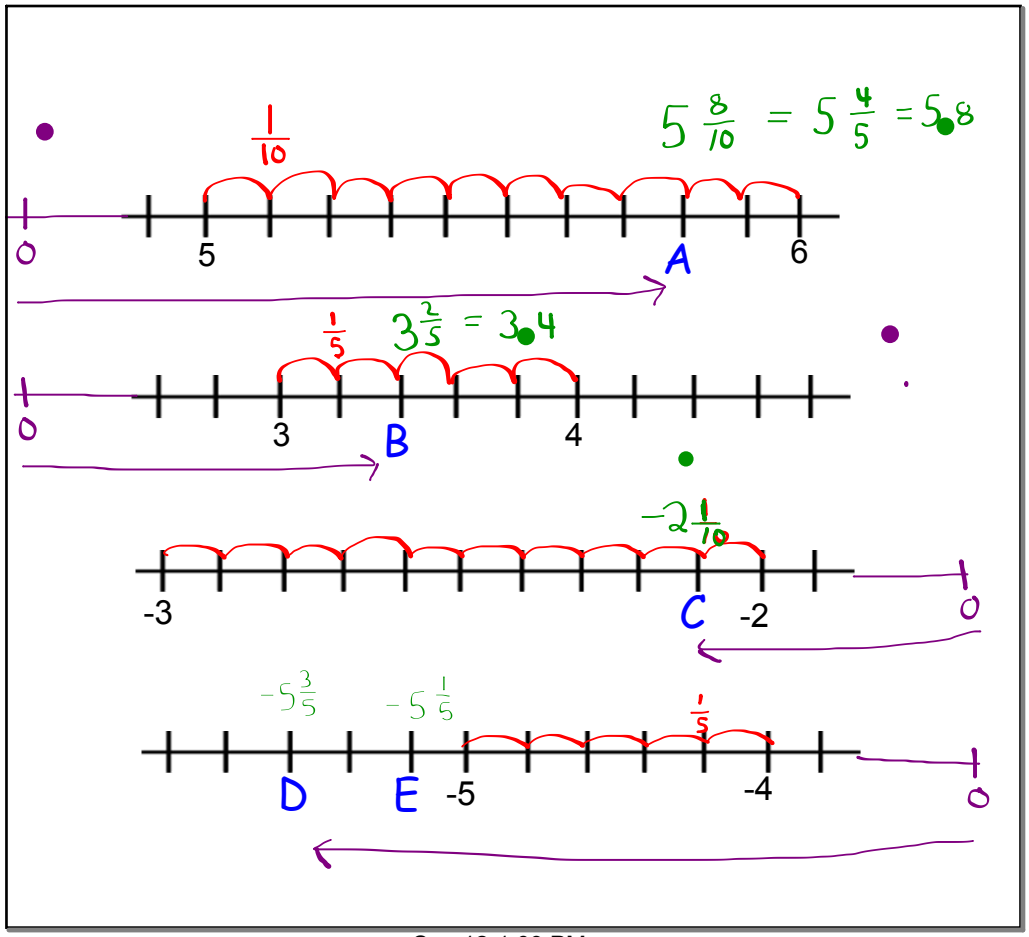








Oct 27-10:48 PM



Sep 12-1:09 PM

1. Change the fractions to decimals.

$\frac{2}{5}$ $\frac{3}{4}$

2÷5

0.4 < 0.75

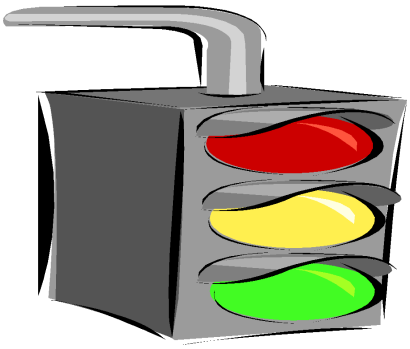
2. Write the fractions with common a denominator.

$\frac{2}{5}$ $\frac{3}{4}$

×4 ×5

$\frac{8}{20}$ < $\frac{15}{20}$

Oct 27-9:37 PM



Homework

Page 101

Questions:

5, 6, 7,

Oct 27-10:41 PM

Changing fractions to decimals...

Express each fraction as a decimal, then sort as a repeating or terminating decimal.

Repeating

$\frac{-5}{9}$

$\frac{6}{27}$ $\frac{27}{33}$

Terminating

$\frac{-8}{5}$

$\frac{20}{-10}$

$\frac{18}{12}$

Oct 31-5:25 PM

The numerator is LARGER than the denominator.

Improper vs. Mixed Fractions

This is a Improper Fraction

$\frac{7}{3}$

Mixed Fraction

Integer + Fraction

$2\frac{1}{3}$

$\frac{18}{5} = 3\frac{3}{5}$

Oct 31-5:27 PM

Mixed Fractions vs. Improper

$10\frac{3}{4} = \frac{43}{4}$

$-2\frac{1}{3} = -\frac{7}{3}$

$-2.\overline{33}$

Sep 12-9:11 AM

Arrange the numbers from least to greatest.

$$-\frac{3}{8}, \frac{5}{9}, -\frac{10}{4}, -1\frac{1}{4}, \frac{7}{10}, \frac{8}{3}$$

Oct 27-10:29 PM

Arrange the numbers from least to greatest.

$-\frac{3}{8}, \frac{5}{9}, -\frac{10}{4}, -1\frac{1}{4}, \frac{7}{10}, \frac{8}{3}$

Change the numbers to decimals!

-0.375, 0.555..., -2.5, -1.25, 0.7, 2.666...

Least...

-2.5
-1.25
-0.375
0.555...
0.7
2.666..

...Greatest

$-\frac{10}{4}, -1\frac{1}{4}, \frac{-3}{8}, \frac{5}{9}, \frac{7}{10}, \frac{8}{3}$

Oct 27-10:29 PM

Find two rational numbers between...

(Decimals may be used on this side.)

$\frac{-3}{8}$ $\frac{-4}{8}$

x 10 x 10

-0.375 -0.5

Show your work!

$\frac{-30}{80}$ $\frac{-40}{80}$

$\frac{-31}{80}, \frac{-32}{80}$

(NO Decimals please!!.)

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

Go to a bigger denominator
Find equivalent Fractions

$\frac{10}{16}$ $\frac{12}{16}$

Oct 31-5:43 PM

Which rational number is larger??

(Decimals may be used on this side.) (NO Decimals please!!.)

$\frac{-12}{15}$ $\frac{-13}{16}$

-0.8000 -0.8125

Show your work!

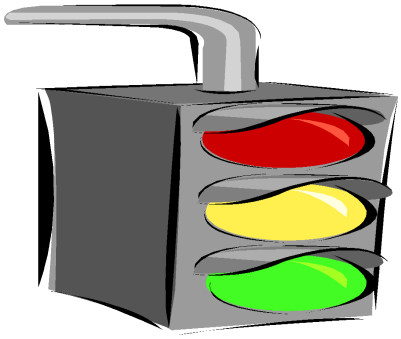
$\frac{2}{3}$ $\frac{3}{4}$

x 8 x 6

$\frac{8}{12}$ $\frac{9}{12}$

$\frac{16}{24}$ $\frac{18}{24}$

Oct 31-5:43 PM



Homework

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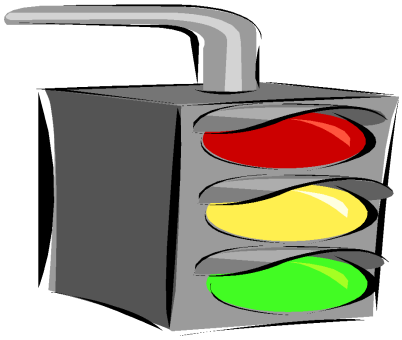
Questions:

8, 10cd, 12af, 16bf, 17ac, 21, 24ac, 27

Oct 27-10:41 PM



Homework

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Questions:

8, 10cd, 12af, 16bf, 17ac, 21, 24ac, 27

Oct 27-10:41 PM

Sep 12-9:17 AM