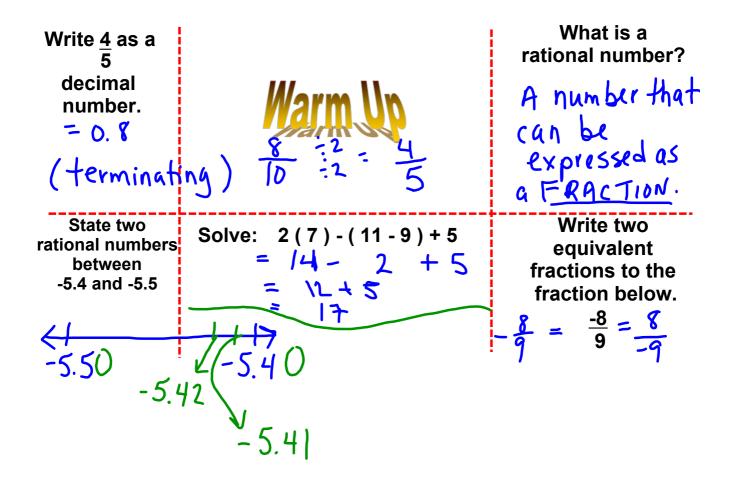
Curriculum Outcome

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

Student Friendly: "Adding fractions and adding decimals."



HOME LEARNING:

Pages 102 and 103 - Questions:

5, 6, 7, 12aceh, 13

SOLUTIONS:

Changing fractions to decimals...

Terminating Decimal Number: A decimal number that ends.

Repeating Decimal Number: A decimal number that has a pattern that goes on forever. $-0.\overline{9}$

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



$$\frac{-5}{9} = -0.5$$

$$\frac{27}{33} = 0.81$$

$$\frac{20}{-10}$$
 = -2 or -2.0



-2.0

What numbers are between

2 and 3? 5 4



There are two ways!

1. Change these fractions to decimals.

$$= 0.4$$
 $= 0.75$

2. Write the fractions with a common denominator.

$$\frac{2}{5}$$
 $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$ $\frac{15}{20}$ $\frac{10}{20}$ $\frac{10}{20}$ $\frac{1}{20}$ \frac

Improper vs. Mixed Numbers



This is an This is an Mixed number: $\frac{\text{improper}}{\text{improper}} \bullet ----- \text{Integer + Fraction} \quad 2\frac{1}{3}$ fraction.

(The numerator is LARGER than the denominator.)

You try:
$$\frac{-15}{4}$$

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

Changing mixed Numbers to improper fractions:

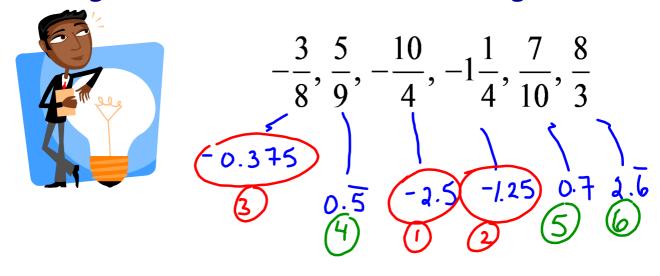
$$\frac{2^{+}_{5}}{2^{+}_{8}}$$

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

You try:

$$5\frac{3}{7}$$
= $\frac{38}{7}$
= $-\frac{13}{3}$

Arrange the numbers from least to greatest.



$$L + 0 G: -\frac{10}{4}; -\frac{11}{4}; -\frac{3}{8}; \frac{5}{9}; \frac{7}{10}; \frac{8}{3}$$

Find two rational numbers between the following pairs of numbers.

(May use decimal numbers.)

$$= -0.375$$
 $= -0.5$

(NO decimal numbers, please!)
$$\frac{5}{8} \times \frac{2}{\sqrt{1}} \times \frac{6}{8} \times \frac{2}{\sqrt{1}} \times \frac{3}{8}$$

Go to a bigger denominator; find equivalent fractions.

$$= \frac{10}{16}$$

$$= \frac{12}{16}$$

$$= \frac{18}{16}$$

$$= \frac{18}{16}$$

$$= \frac{18}{16}$$

$$= \frac{18}{16}$$

$$= \frac{18}{16}$$

Which rational number is larger?

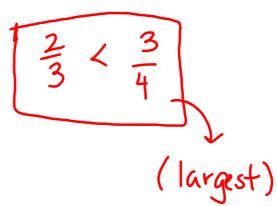
- - S-how - your - Work !- -

(May use decimal numbers.)

(NO decimal numbers, please!)

$$\frac{3}{4} \times 3$$

$$=$$
 $\frac{9}{12}$ $=$ $\frac{9}{12}$



Which rational number is larger?



(Be careful with negative numbers...)





HOME LEARNING:
Pages 102 and 103 - Questions: 14aceg , 16bf , 17ac , 21 , **24ac**

NOTE:

Don't just give answers - you must copy down the question first. When you see fractions, you must use fractions and show all work. Ignore anything about "number lines".