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"

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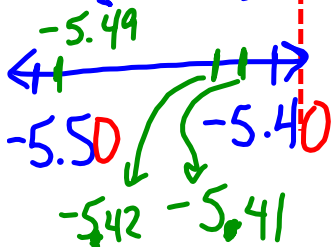
$\frac{4}{5}$

$= 0.8$

(terminating decimal number)

Warm Up

What is a rational number?

Any number that can be written as a FRACTION.

State two rational numbers between -5.4 and -5.5

-5.49

-5.50   -5.40

-5.42 -5.41

Solve: 2 (7) - (11 - 9) + 5

$= 14 - 2 + 5$

$= 12 + 5$

$= 17$

Write two equivalent fractions to the fraction below.

$\frac{8}{-9} = \frac{-8}{9} = -\frac{8}{9}$

HOME LEARNING:
Pages 102 and 103 - Questions:
5 , 6 , 7, 12aceh , 13

QUESTIONS???

$$\frac{4}{5} = 0.8$$

Changing fractions to decimals....

$$\frac{-2}{3} = -0.\overline{6}$$

Terminating Decimal Number: A decimal number that ends. 0.8

Repeating Decimal Number: A decimal number that has a pattern that goes on forever. $0.\overline{6}$

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

Repeating

$\dfrac{-5}{9}$ = $-0.\overline{5}$

$\dfrac{27}{33}$ = $0.\overline{81}$

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

$-0.\overline{5}$

$0.\overline{81}$

Terminating

2.0

**Which numbers
are between
$\frac{2}{5}$ and $\frac{3}{4}$?**

*There are
two ways!*

1. **Change these fractions to decimals.**

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

$$= 0.4 \qquad = 0.75$$

$$0.49$$

2. **Write the fractions with a common
denominator.**

$$\frac{2}{5}^{\times 4}_{\times 4} \qquad \frac{3}{4}^{\times 5}_{\times 5}$$

$$= \frac{8}{20} \qquad = \frac{15}{20}$$

$$\frac{14}{20}^{\div 2}_{\div 2} = \frac{7}{10}$$

$$5, 10, 15, \boxed{20}$$

$$4, 8, 12, 16, \boxed{20}$$

Lowest Common Multiple = 20

So, 0.49 and $\frac{7}{10}$ are between $\frac{2}{5}$ and $\frac{3}{4}$.

Improper vs. Mixed Numbers

$$\frac{7}{3}$$

This is an **improper fraction**.

(The numerator is LARGER than the denominator.)

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Mixed number:
Integer + Fraction

$$2\frac{1}{3}$$

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

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

It is now time for HOME LEARNING!!!

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

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".