Howdy!!!!

Coach Watson

FOA

Jan 5-3:51 PM

Unit 1.1 Test

- Rational, Integers, Whole, Natural, Irrational

- Adding, Subtracting, Multiply, Divide

- Real World Applications

0:09:00

Aug 6-10:55 AM

a) -5 b) 2.1 c) $4.\overline{89}$ d) 4

~~e) 0.410215...~~   f) $\frac{1}{5}$ ~~g)~~   e) $10.1313...$

Todays Notes

Jul 30-4:21 PM

Unit 1: Number Sense & Quantity
Learning Goal #1.2: Operations & Reasoning with Fractions

After completion of this learning Goal, you will be able to…

- Add, Subtract, Multiply, and Divide Fractions using Models and Algorithms
- Simplify fractions
- Estimate fractions on a Number line
- Convert between mixed and improper fractions
- Compare fractions and integers
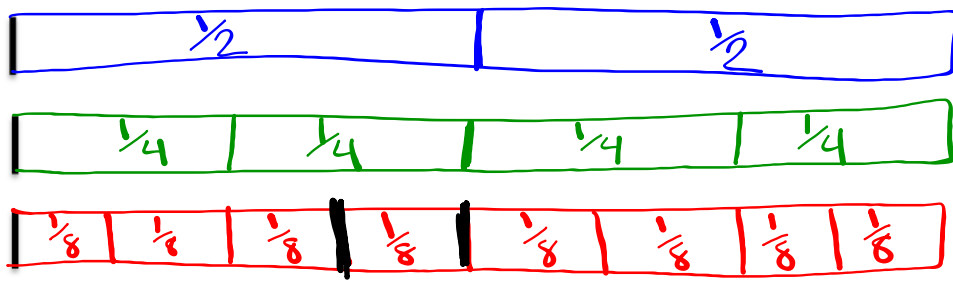
Timeline for Unit 1

Monday	Tuesday	Wednesday	Thursday	Friday
5th Day 1 Adding Integers and Real Numbers	6th Day 2 Subtracting, Multiply, Divide Integers	7th Day 3 Real World Applications	8th Day 4 **1.1 Learning Goal assessment;** Intro to fractions	9th Day 5 Fractions on a Number Line, Simplyfying & Converting Fractions
12th Day 6 Estimating, Comparing, & Benchmark Fractions	13th Day 7 Adding and Subtracting Fractions	14th Day 8 Multiplying and Dividing Fractions	15th Day 9 **1.2 Assessment;** Place Value & Rounding	16th Day 10 Comparing and Real World Applications with Decimals
19th Day 11 Multiplying and Dividing by Powers of 10	20th Day 12 **1.3 Assessment;** Intro to Percents	21th Day 13 Percents on a Number Line	22th Day 14 Percents of a Number EquationS	23rd Day 15 **1.4 Assessment**

	Monday	Tuesday	Wednesday	Thursday	Friday
AM	NONE	NONE	Mr. Webb 7:45 – 8:15 Room 1205	Mr. Watson 7:45 – 8:15 Room 1208	Mr. Watson 7:45 – 8:15 Room 1208
PM	Mrs. Petersen 3:30 – 4:30 Room 1210	Mr. Webb 3:30 – 4:30 Room 1205	Mrs. Jackson 3:30 – 4:30 Room 1210	Mrs. Jackson 3:30 – 4:30 Room 1210	NONE

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Foundations of Algebra   Unit I: Number Sense & Quantity   Notes
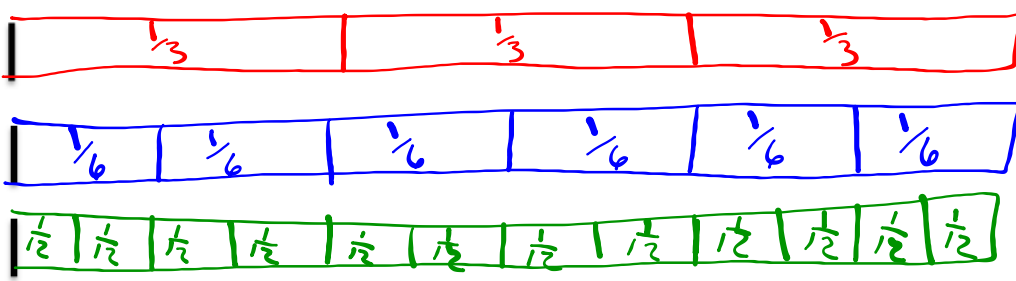
Day 4: Fractions on a Number Line

To understand how fraction works on a number line, we are going to create three different number lines:
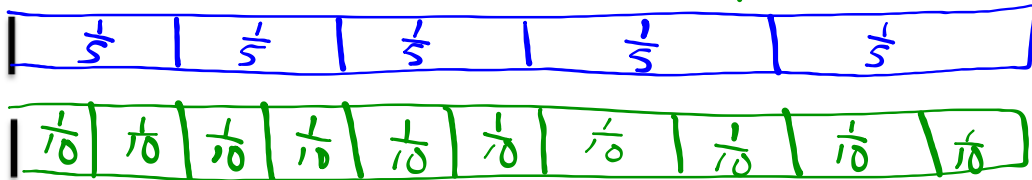
1st Number Line: __$\frac{1}{2}$ half # line__ (Make your line 16 cm long)

    1st Color: Divide your number line into two equal parts. What fraction is this? ____$\frac{1}{2}$____

    2nd Color: Divide your two halves in half again. What fraction is this? ____$\frac{1}{4}$____

    3rd Color: Divide your four halves in half again. What fraction is this? ____$\frac{1}{8}$____

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

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

2nd Number Line: __$\frac{1}{3}$ rd # line__ (Make your line 12 cm long)

    1st Color: Divide your number line into three equal parts. What fraction is this? ____$\frac{1}{3}$____

    2nd Color: Divide your three pieces in half. What fraction is this? ____$\frac{1}{6}$____

    3rd Color: Divide your three pieces in half again. What fraction is this? ____$\frac{1}{12}$____

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

$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$

3rd Number Line: __$\frac{1}{5}$ # line__ (Make your line 15 cm long)

    1st Color: Divide your number line into five equal parts. What fraction is this? ____$\frac{1}{5}$____

    2nd Color: Divide your five pieces in half. What fraction is this? ____$\frac{1}{10}$____

$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$

$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

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Foundations of Algebra   Unit I: Number Sense & Quantity   Notes

Analyze: Answer the following questions below:

1. **Unit Fractions** are fractions that have a numerator of 1 and a denominator that is a positive integer. List your unit fractions from the previous page in descending (biggest to smallest) order.

2. As the denominator gets bigger, the fraction is getting _____.

3. What does the denominator of the unit fraction tell you?

4. Create another number line that is 10 cm long. Place your unit fractions on the number line.

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5. Name the following fractions that are equivalent to the following unit fractions:

a. $\frac{1}{2}$ _____   b. $\frac{1}{3}$ _____

c. $\frac{1}{4}$ _____   d. $\frac{1}{5}$ _____

e. $\frac{1}{6}$ _____   f. $\frac{2}{3}$ _____

g. $\frac{3}{4}$ _____   h. 1 _____

6. What do you notice about the numerator and denominator of the equivalent fractions?

7. Create two additional equivalent fractions for the following:

a. $\frac{5}{6}$ b. $\frac{2}{5}$ c. $\frac{3}{8}$

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