
6th Grade
Jan. 4, 2021
Welcome back! :)
Today we will:
-set up table of contents for Unit 2 on Fractions, Decimals, and Percents
-complete notes (on Edpuzzle if you are remote and not in class)
-work on WS
HOMEWORK:
Complete pg 93 WS
New ALEKS assignment starts tomorrow(60 min and 5 topics) and will be due Jan 12

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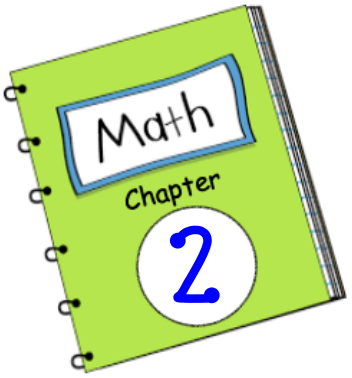

TITLE: Decimals, Fractions, and Percents

Date	Lesson	Topic/Assignment
1/4	1	Decimals and Fractions Video Notes
1/5	1	HOMEWORK: Pg 93 WS

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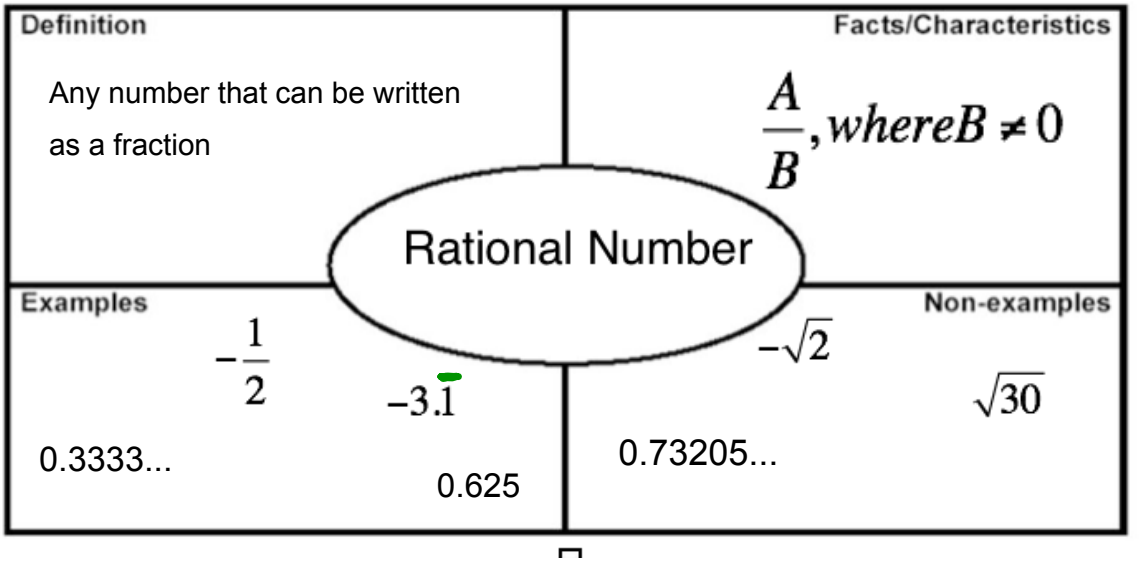
2-1 Decimals and Fractions

Rational Number: Any number that can be written as a fraction

Frayer Model: Rational Numbers

Glue into INB:



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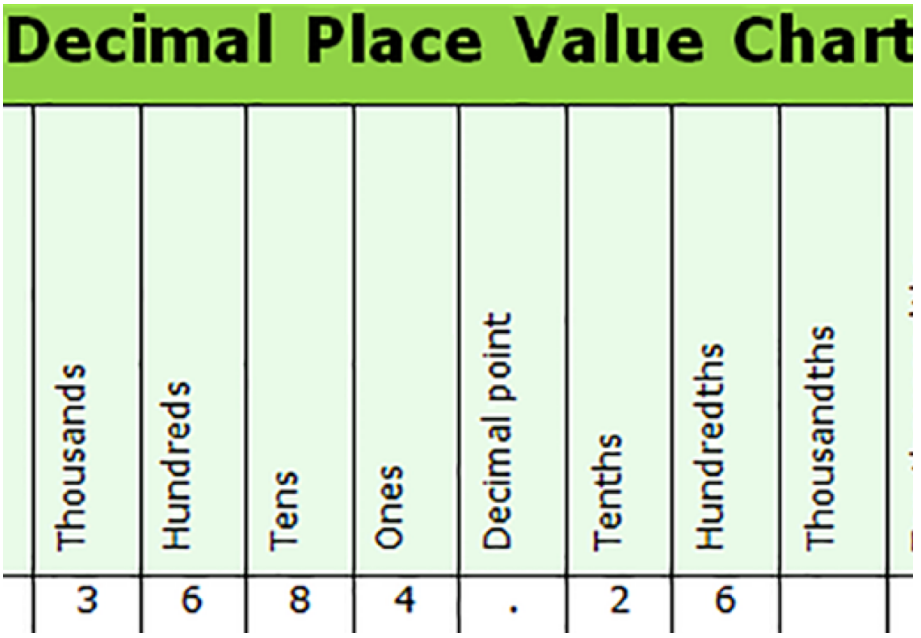
Decimals and Fractions Foldable



Decimals to Fractions:

Step 1: write the decimal as a fraction using place value (tenths hundredths, thousandths)

Step 2: simplify to lowest terms

0.8= $\frac{8}{10} \div \frac{2}{2} = \frac{4}{5}$

0.28= $\frac{28}{100} \div \frac{2}{2} = \frac{14}{50} \div \frac{2}{2} = \frac{7}{25}$

9.25= $9\ \frac{25}{100} \div \frac{5}{5} = \frac{5}{20} \div \frac{5}{5} = \frac{1}{4}$ → $9\frac{1}{4}$

Fractions to Decimals:

Step 1: Use equivalent fractions to make denominator of 10, 100, or 1000

OR divide numerator by denominator

Step 2: Use place value to write the fraction as a decimal

$\frac{3}{5} \times \frac{2}{2} = \frac{6}{10} = 0.6$

$5\overline{)3.0}$ -30 0

$\frac{14}{25} \times \frac{4}{4} = \frac{56}{100} = 0.56$

$25\overline{)14.00}$

$\frac{102}{250} \times \frac{4}{4} = \frac{408}{1000} = 0.408$

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Write each decimal as a fraction or mixed number in simplest form. (Examples 1–4)

1. 0.4 = $\frac{2}{5}$

Show your work.

$\frac{4}{10} \div \frac{2}{2} = \frac{2}{5}$

2. 0.64 = $\frac{16}{25}$

$\frac{64}{100}$

0.64

$\frac{64}{100} \div \frac{2}{2} = \frac{32}{50} \div \frac{2}{2} = \frac{16}{25}$

3. 2.75 = $2\frac{3}{4}$

$2\frac{75}{100} \cdot \frac{25}{25} \quad 2\frac{3}{4}$

Write each fraction or mixed number as a decimal. (Examples 5 and 6)

4. $\frac{27}{75}$ = 0.36

$75\overline{)27.00}$

$\frac{27}{75} \div \frac{3}{3} = \frac{9}{25}$

Hint for #4: Simplify first.

$\frac{9}{25} \times \frac{4}{4} = \frac{36}{100}$

5. $\frac{7}{2}$ = 3.5

$\frac{7}{2} \times \frac{5}{5} = \frac{35}{10}$

3.5

6. $3\frac{1}{5}$ = 3.2

$\frac{1}{5} \times \frac{2}{2} = \frac{2}{10}$

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Homework:

Independent Practice

Go online for Step-by-Step Solutions

eHelp

Write each decimal as a fraction in simplest form. (Examples 1–3)

1. 0.5 = _____
2. 0.7 = _____
3. 0.33 = _____
4. 0.875 = _____

Show your work.

Write each fraction or mixed number as a decimal. (Examples 5 and 6)

5. $\frac{77}{200}$ = _____
6. $\frac{1}{20}$ = _____
7. $\frac{12}{75}$ = _____
8. $8\frac{21}{40}$ = _____

9. STEM Mercury orbits the Sun in $87\frac{24}{25}$ Earth days. Venus orbits the Sun in $224\frac{7}{10}$ Earth days, and Mars orbits the Sun in $686\frac{49}{50}$ days. Write each mixed number as a decimal. (Example 6)

10. STEM Last week, a share of stock gained a total of 1.64 points. Express this gain as a mixed number in simplest form. (Example 4)

11. MP **Use Math Tools** The table shows the ingredients in an Italian sandwich.

Ingredient	Amount (lb)
meat	0.35
vegetables	0.15
secret sauce	0.05
bread	0.05

a. What fraction of a pound is each ingredient?

b. How much more meat is in the sandwich than vegetables? Write the amount as a fraction in simplest form.

c. What is the total weight of the Italian sandwich? Write the amount as a fraction in simplest form. _____