

You need out your agenda, hw from last night, & warm up

Homework: Converting. Quiz Friday!

Warm Up: **convert to a decimal-**

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

Handwritten work for  $\frac{1}{8}$ :

0.125 DMSBD

8 | 1.000

8 ↓

20

- 16

40

40

Vertical text:  $\frac{1}{10} + \frac{2}{100} + \frac{5}{1000}$

2)  $\frac{44}{99}$

Handwritten work for  $\frac{44}{99}$ :

$\frac{4}{9} = .\overline{4}$

99 | 44.0

44

0

25

25

100

Converting Decimals to Fractions Notes

Quick Review:

Seven tenths	$\frac{7}{10}$	0.7
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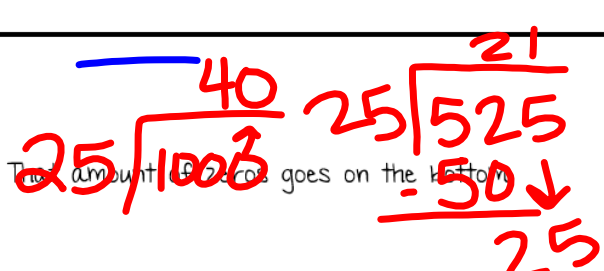
	whole	tenths	hundredths	thousandths
Nine hundredths			$\frac{9}{100}$	0.09

Converting Decimals to Fractions:

1) Write the number behind the decimal on the top

2) Count the number of numbers are behind the decimal. The amount of zeros goes on the bottom.

3) Simplify



Ex:

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

.525  $\frac{525}{1000} \div 25 = \frac{21}{40}$

Practice!

$$\begin{array}{r} 17 \\ 2 \overline{) 34} \\ \underline{-2} \phantom{0} \\ 14 \end{array}$$

0.34  $\frac{34}{100} \div 2 = \frac{17}{50}$  -0.16

$$\frac{34}{100} \div 2 = \frac{17}{50}$$

$$\begin{array}{r} 50 \\ 2 \overline{) 100} \end{array}$$

$$\frac{16}{100} \div 2 = \frac{8}{50} \div 2 = \frac{4}{25}$$

$$\frac{13}{1}$$

$$* 1.26$$

$$\left| \frac{26}{100} \div 2 \right| \frac{13}{50}$$

~~0.7~~  
 A)  $\frac{7}{10}$   
 .7

B)  $\frac{7}{9}$

$0.\overline{21}$      $.143 = \frac{143}{999}$      $\overline{.41} = \frac{41}{99}$

A)  $\frac{21}{99}$

B)  $\frac{21}{100}$   
 .21

C)  $\frac{21}{9}$

Name

Pop QUIZ  
because we talk

1) convert to a decimal  $\frac{5}{8}$

2) convert to a fraction .345

3) convert to a fraction  $\overline{.7}$

Which decimals are repeating? \_\_\_\_\_

Which decimals are terminating? \_\_\_\_\_



## Hiking Trails

Lakeview .....  $1\frac{1}{4}$ Forest Lane .....  $1\frac{1}{3}$ Sparrow Stroll .....  $1\frac{3}{10}$ Mountain Climb .....  $1\frac{2}{3}$ Which trail length is equivalent to  $1.\bar{3}$ ?

you're done with new topics for unit 1!

## Converting Decimals to Fractions— Homework

Fish	Amount
Guppy	0.25
Angelfish	0.4
Goldfish	0.15
Molly	0.2

1. Convert the amount of Goldfish into a fraction
2. Convert the amount of Angelfish into a fraction
3. Convert -0.13 into a fraction
4. Convert 5.6 into a fraction
5. The fraction of a dime that is made up of copper is  $\frac{12}{16}$ . Write this fraction as a decimal.