

**Warm Up!**

- 1.) Write in agenda book
- 2.) Place homework on your desk (8.1)
- 3.) Write the fraction  $7/20$  as a decimal and a percent.

0.35  
35%

Nov 30-10:22 AM

**Lesson 8.2: Percents, Fractions and Decimals**

Learning Target: I can write equivalent percents, fractions, and decimals.

Nov 30-10:23 AM

Equivalent percents, decimals, and fractions all represent equal parts of the same whole.

**Writing Percents as Fractions**

Percent means per 100.

To write a percent as a fraction write the percent in the numerator and 100 in the denominator.

If possible, write the fraction in simplest form.

Nov 30-10:24 AM

**Writing Decimals as Percents and Percents as Decimals**

To write a decimal as a percent, move the decimal two spots to the right. To write a percent as a decimal, add a decimal point and move it two spots to the left.

Think:

D  $\rightleftarrows$  P  
2 spots

0.63, 63%  
84%, 0.84

If you are given a fraction and can not get the denominator to 10 or 100, use long division.  
(Think: fraction tree that falls!)

Nov 30-10:25 AM

**Example 1 and 2:** Write each percent as a fraction (simplest form) and as a decimal.

1. 15%      2.) 48%

$\frac{3}{20}$   
0.15

$\frac{12}{25}$   
0.48

Nov 30-10:26 AM

**Example 3 and 4:** Write each fraction as a decimal and percent.

3.)  $\frac{9}{25}$       4.)  $\frac{7}{8}$

.36  
36%

0.875  
87.5%

Nov 30-10:27 AM

The poster shows how many of its games the football team has won so far. Express this information as a fraction, a percent, and as a decimal.

**GO TEAM!**  
12 out of 15 wins!

$\frac{12}{15} = \frac{4}{5}$   
0.8  
80%

Nov 30-10:29 AM

Write  $\frac{258}{300}$  as a percent and decimal.

Write 165% as a mixed number and decimal.

Write 55% as a fraction and decimal.

Dec 11-11:46 AM

**H.O.T.** FOCUS ON HIGHER ORDER THINKING

**Represent Real-World Problems** Evan budgets \$2,000 a month to spend on living expenses for his family. Complete the table to express the portion spent on each cost as a percent, fraction, and decimal.

	Food: \$500	Rent: \$1,200	Transportation: \$300
Fraction	$\frac{1}{4}$	$\frac{3}{5}$	$\frac{3}{20}$
Percent	25%	60%	15%
Decimal	0.25	0.6	0.15

Nov 30-10:29 AM

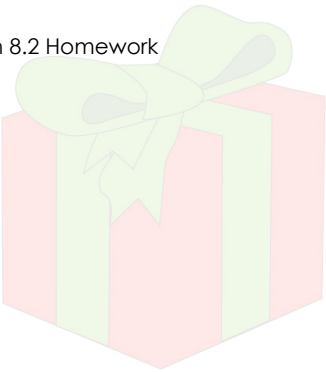
**Explain the Error** Your friend says that 14.5% is equivalent to the decimal 14.5. Explain why your friend is incorrect by comparing the fractional equivalents of 14.5% and 14.5.

$\frac{145}{1000} < 14\frac{1}{2}$

Nov 30-10:31 AM

**To Do:**

- 1.) Lesson 8.2 Homework
- 2.) ALEKS



Nov 30-10:28 AM