

**Lesson: Enrichment Converting Fractions Decimals and Percents**

**Sixth Grade Objective:**

1.02 Develop meaning for percents

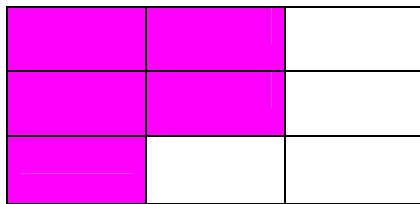
- a) Connect the model, number word, and number using a variety of representations.
- b) b) Make estimates in appropriate situations

1.03 Compare and Order Rational Numbers

**Review.**

**Try these on your own!**

A. What is the fraction, decimal and percent?



B. Convert the decimals to percents.

0.45            0.234            2.58

C. Convert the fractions to decimals.

$\frac{23}{45}$              $\frac{15}{30}$              $\frac{22}{32}$

**Check your answers!**

A.  $\frac{5}{9} = 0.55555$  (Repeating decimal) = 56% (Move the decimal point two places to the right and you can round to the nearest hundredths)

B. To convert a decimal to a percent multiply by 100 or simply move the decimal point two places to the right.

45%            23.4%            258%

C. To convert fractions to decimals divide the numerator by the denominator.

$\frac{23}{45} = 0.51111$              $\frac{15}{30} = 0.5$              $\frac{22}{32} = 0.6875$

**ACTIVITY 1:**

Print out the dominoes card (Next page labeled activity 1). Cut out the pieces on the solid lines only. Mix up the pieces or if playing with others divide the pieces evenly. Find the start piece and place it in front of you. Then find the next piece that makes the expression true. For example, start is 0.038, place that piece on a flat surface then find the word form, which is thirty eight thousandths and place it beside the decimal, 0.038. Repeat the directions.

**ACTIVITY 2:**

You are going to convert fractions, decimals and percents by using a flag from around the world. First, print out the hundreds chart on the next page. Then click on the website to choose one of the world flags. You can choose any flag but remember you are going to color it on the hundreds chart.

[http://www.allposters.com/-sp/Flags-of-The-World-Chart-Spaceshots-Posters\\_i390679\\_.htm](http://www.allposters.com/-sp/Flags-of-The-World-Chart-Spaceshots-Posters_i390679_.htm)

Color in the chart according to your flag. Once you are finished determine the fraction, percent and decimal of each color.

**Activity 1**

Eight and Three Tenths	0.5	Thirteen and Five Hundredths	12.0034	Forty Two Hundredths	2.4	
Six and Two Tenths	8.3	Fifty Eight Ten Thousandths	13.05	Forty Two	0.42	Eleven and One Fourth
Eight and Three Thousandths	6.2	Seven Hundred Thirty Three and Two Hundredths	0.0058	Nine Thousandths	42	Eleven and Three Fourths
Eight and Three Hundredths	8.003	Nine Tenths	733.02	One and Twenty Two Hundredths	0.009	Eleven and One Half
Fifty Five Hundredths	8.03	Fifty Five Thousandths	.9	Forty Three Thousandths	1.22	Ten and One Fourth
Six and two thousandths	0.55	Thirty Eight Hundredths	0.055	Twelve and Thirty Four Hundredths	.043	Ten and Three Fourths
Thirty Eight Thousandths	6.002	Six and Two Hundredths	0.38	Twelve and Thirty Four Thousandths	12.34	Ten and One Half
<b>START</b>	0.038	Five Tenths	6.02	Twelve and Thirty Four Ten Thousandths	12.034	Two and Four Tenths
						<b>STOP</b>
						10.5

