Name: $\qquad$ Per $\qquad$ Mrs. Doolan/Math6

## 10-10 Converting Decimals, Percents and Fractions



Objective: You've learned what a percent is and how to solve for a percent of a number. Now it is time to learn to convert decimals $\leftrightarrow$ percents $\leftrightarrow$ fractions. Today we'll learn how to : convert decimals and percents to each other and to fractions in simplest form.

## Converting a decimal to a percent:



Step 1: Multiply your hundredths decimal value by


100 to convert into a percent and

Step \#2: Attach a percent symbol.
(This is the same thing as moving the decimal point two place to the right (signifies multiplying by 100) to convert your decimal value into a percent and then attaching the percent symbol.)


$$
0.45=45 \%
$$

Ex: 0.07
Ex: 0.9
Ex: 0.38

## Converting a percent to a decimal:



Step 1: Divide your percent by 100 to convert into a decimal number and

Step \#2: Drop the percent symbol.
(This is the same thing as moving the decimal point two place to the left (signifies dividing by 100) to convert your percent value into a decimal and then dropping the percent symbol.)


$$
\text { Ex: } 111 \%=1.11
$$

$$
\text { Ex: } 5 \%=
$$

Ex: $28 \%=$

## Converting a decimal to a fraction:



Step \#2: Write the denominator equal to the place value of the decimal number.

Step \#3: Be sure to simplify if possible.


$$
0.32=\frac{32}{100}=\frac{32 \div 4}{100 \div 4}=\frac{8}{25}
$$

$$
\text { Ex: } 0.775
$$

Ex: 0.62
Ex: 2.35

## Converting a percent to a fraction:

Step \#1: Rewrite the digits of the percent as the numerator.
Step \#2: Write the denominator as 100.
Step \#3: Be sure to simplify if possible.


Ex: 13\%

Ex: 75\%
Ex: 125\%

