# Fractions, Decimals, and Percents Notes

### **Vocabulary**

Numerator – Top number of a fraction or part of the whole. Denominator – Bottom number of a fraction or the whole.

# **Fraction to Decimal**

•To convert a fraction to a decimal - divide the numerator by the denominator. (top in, bottom out)

$$\frac{1}{4} \rightarrow 4\overline{)1} \rightarrow .25$$
  $\frac{3}{7} \rightarrow 7\overline{)3} \rightarrow .428$ 

# **Decimal to Fraction**

•To convert a decimal to a fraction - write it like you say it, then simplify, if needed.

.7  $\rightarrow$  "seven tenths"  $\rightarrow \frac{7}{10}$  4.28  $\rightarrow$  "four and twenty eight hundredths"  $\rightarrow 4\frac{28}{100} = 4\frac{7}{25}$ 

# **Decimal to Percent**

•To convert a decimal to a percent - move the decimal point two places to the RIGHT and add a percent sign.



## Percent to Decimal

•To convert a percent to a decimal - move decimal point two places to the LEFT and remove the percent sign.



#### **Percent to Fraction**

•To convert a percent to a fraction - first convert to a decimal, and then convert the decimal to a fraction.

Percent to Decimal Decimal to Fraction  

$$32\% \rightarrow 32\% \rightarrow 0.32 \rightarrow "$$
 thirty two hunderdthes"  $\rightarrow \frac{32}{100}$ 

## **Fraction to Percent**

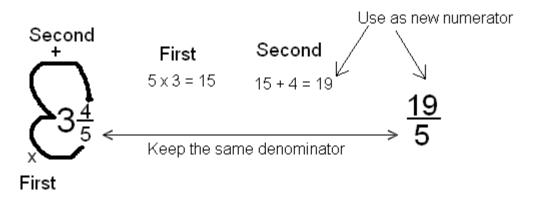
•To convert a fraction to a percent - first convert to a decimal, then convert the decimal to percent.

Fraction to Decimal  $\frac{3}{8} \rightarrow$  Divide numerator by denominator  $\rightarrow 8 \boxed{3} \rightarrow 0.375 \rightarrow 0.375 \rightarrow 37.5\%$ 

# **Mixed Numbers and Improper Fractions**

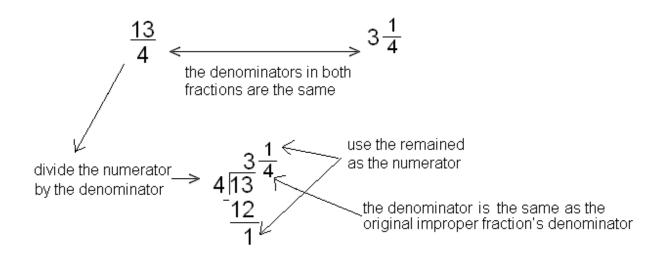
## **Mixed Number to Improper Fraction**

•To covert a mixed number to an improper fraction - multiply the denominator by the whole number, then add the numerator. Use that number as your new numerator, keep the same denominator. (popcorn or ABC, 123)



## **Improper Fraction to Mixed Number**

•To convert an improper fraction to a mixed number – divide the numerator by the denominator. The remainder should be in fraction form with the remainder as the numerator and the denominator the same as the original improper fraction's denominator.



**Practice** 

Write the following numbers as fractions.

1. 2.25	2. 62%	3. 0.5	4. 75%	5. 100%
Write the following numbers as decimals.				
6. $\frac{3}{4}$	7. 3.12%	8. $3\frac{3}{5}$	9. 0.65%	10. $\frac{1}{10}$
11. 4.36	12. $\frac{1}{4}$	13. 800	14. $5\frac{1}{2}$	15. 100