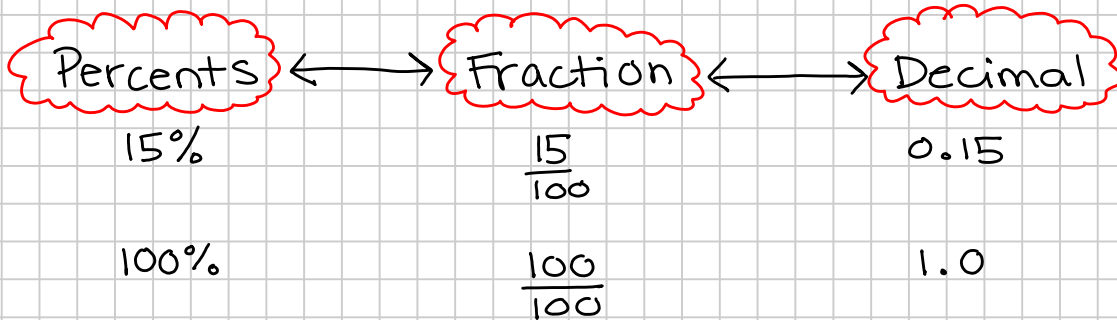


A3 Notes #3 - Conversions. (day 2)

Note Title

11/02/2015



Recall:

- From **DECIMAL** to a **PERCENT**, multiply by 100.

ex: $0.75 \times 100 = 75\%$

↑↑
2 zeros
Move decimal 2 places Right

- From **DECIMAL** to a **FRACTION**, count place values and make the denominator the place value. The numerator is the number with no decimal.

ex: $0.14 = \frac{14}{100}$
↓
hundredths

$0.000702 = \frac{702}{1,000,000}$
↓
millionth

- From **FRACTION** to a **PERCENT**

Method ① make denominator 100 by multiplying or dividing to create an equivalent fraction. Numerator is Percent.

ex: $\frac{7}{10} \times \frac{10}{10} = \frac{70}{100} \rightarrow 70\%$

Method ② divide the numerator by the denominator. This gives you a decimal, then multiply by 100.

ex: $\frac{5}{8}$ $5 \div 8 = 0.625 \times 100 = 62.5\%$

NEW From a **FRACTION** to a **DECIMAL**, divide the numerator by the denominator.

ex: Rounded to nearest hundredth. $\frac{31}{39} = 0.794871 = 0.79$
↑↑
LOOK HERE.
LEAVE IT.

• From a **PERCENT** to a **DECIMAL**, divide by 100.

$$\text{ex: } 32.7\% \div 100 = 0.327$$

↑ ↑↑
move 2 places Left 2 zeros

⊛ BE CAREFUL ⊛ when your **PERCENT** contains a **FRACTION** you must convert fraction to decimal.

$$\text{ex: } 14\frac{2}{5}\% \rightarrow 14.4\% \div 100 = 0.144$$

↑
confusing!
 $2 \div 5 = 0.4$

• From a **PERCENT** to a **FRACTION**, take the exact percent (but convert fraction percent into a decimal) and use it as the numerator over a denominator of 100. Then multiply by 10's on num. & den. until the decimal is gone.

$$\text{ex: } 72\% = \frac{72}{100} \qquad 13.9\% = \frac{13.9}{100} = \frac{139}{1,000}$$

$\times 10$ $\times 10$

$$\frac{3}{4}\% = 0.75\% = \frac{0.75}{100} = \frac{75}{10,000}$$

$\times 100$ $\times 100$

$$3 \div 4 =$$