

# A3 Notes #2

Note Title

## Converting b/w Percents, Fractions, Decimals

23/10/2013

- to use a Percent in a question (ex finding sales tax or a grade) you must convert it to a decimal.

Recall:  $\star \frac{3}{5} \Rightarrow 3 \div 5 \Rightarrow 0.6$

$\star$  if you have 0.8 it is 0.80

$\star$  the name of the decimal place value will tell you the denominator so you can make it a fraction

$0.92 \Rightarrow \frac{92}{100}$   
 $\uparrow\uparrow$   
 2 decimals hundredths  $\rightarrow$  2 zeros

$0.073 \Rightarrow \frac{73}{1000}$   
 $\uparrow\uparrow\uparrow$   
 3 decimals thousandths  $\rightarrow$  3 zeros

check  $92 \div 100 = 0.92$

$73 \div 1000 = 0.073$

Make a Percent: ALWAYS  $\times 100$

$0.92 \times 100 = 92\%$   
 $\uparrow\uparrow$

$0.073 \times 100 = 7.3\%$   
 $\uparrow\uparrow$

Move decimal 2 places RIGHT  
 $\star$  makes # larger

Move decimal 2 spots right

Trick of Moving the decimal

Percents

Fractions

Decimals

36%

$\frac{36}{100}$

$36 \div 100 = 0.36$

$\star$  Rule  $\star$

when  $\div$  by 100, decimal moves 2 spots LEFT (smaller #)

54%

$\frac{54}{100}$

$54 \div 100 = 0.54$

$18\% = 0.18 \times 100$

$\frac{18}{100}$

$18 \div 100 = 0.18$

$9\% = 0.09 \times 100$

$\frac{9}{100}$

0.09

42.6%

$\frac{426}{1000}$

0.426

110%

$\frac{110}{100}$

$110 \div 100 = 1.10$

81.5%

$$\frac{81.5}{100} \times 10 = \frac{815}{1000}$$

0.815

cant have decimal  
in fraction

0.12%

$$\frac{12}{10,000}$$

0.0012  $\times 100$

0.436%

$$\frac{0.436}{100} \times 1000 = \frac{436}{100,000}$$

0.00436

move decimal 3 spots  
 $\times 1000$  (3 zeros)

\*Less than 1\*

$$\frac{2}{5}\% \\ 2 \div 5 = 0.4\%$$

$$\frac{0.4}{100} \times 10 = \frac{4}{1,000}$$

0.004

$17\frac{3}{4}\%$

$$3 \div 4 = 0.75$$

17.75%

$$\frac{17.75}{100} \times 100 = \frac{1775}{10,000}$$

0.1775