

A3 Notes #2 - Conversions

★ Calculators ★

Note Title

10/02/2015

Percent ↔ Fraction ↔ Decimal

When a word problem or real life situation uses a percent (sales tax, tips, etc) you must convert the percent into a decimal.

ex: test score $\frac{16.5}{20}$ $16.5 \div 20 = 0.825 \times 100\% = 82.5\%$

or $\frac{16.5}{20} \xrightarrow{\times 5} = \frac{82.5}{100} \xrightarrow{\text{base 100}} 82.5\%$

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

ex: $0.36 \times 100 = 36\%$
↑↑ 2 place values Right

$0.07 \times 100 = 7\%$
↑↑ 2 zeros

$1.03 \times 100 = 103\%$

$0.0008 \times 100 = 0.08\%$

From a **FRACTION** to a **PERCENT**, two ways:

① Divide numerator by denominator to give a decimal. Then, multiply by 100.

$\frac{18}{25}$

$18 \div 25 = 0.72 \times 100 = 72\%$

② Make an equivalent fraction with a denominator of 100, the numerator is your percent.

$\frac{31}{50} \xrightarrow{\times 2} = \frac{62}{100} \rightarrow 62\%$

$\frac{12}{40} \xrightarrow{\div 4} = \frac{3}{10} \xrightarrow{\times 10} = \frac{30}{100} \rightarrow 30\%$

Rounding Reminder

tenth

$$0.842 = 0.8$$

↑
look here
if 5 or more
Round up.

$$2.667 = 2.7$$

↑
over
Round up

hundredth

$$7.1398 = 7.14$$

↑
look here
up