

Percentages

"per" - "divide by" or "out of"

"cent" - "100" (think 100 cents in a dollar)

Percent to Decimal: Divide by 100

$$\text{Example: } 56.8\% \rightarrow \frac{56.8}{100} = 0.568$$

Decimal (rate) to Percent: multiply by 100

$$\text{Example: } 0.868 \rightarrow 0.868 \times 100 = 86.8\%$$

Fraction (ratio) to Decimal (rate): Divide the top by the bottom

$$\text{Example: } \frac{3}{4} \rightarrow \begin{array}{r} 0.75 \\ 4 \overline{)3.00} \\ \underline{-28} \downarrow \\ 20 \\ \underline{-20} \\ 0 \end{array} \rightarrow 0.75$$

Decimal to Fraction:

- Steps:
- ① Put your decimal over 1
 - ② Move the decimal point to the right until you have a whole number on top.
 - ③ Move the decimal after the "1" on the bottom to the right by the same number of places, filling in with zeros.
(You just multiplied top & bottom by the same power of 10.)
 - ④ Reduce the fraction.