Math 10 - Unit 1 - Lesson 1 - Unit Conversions

Measurement Unit

Unit Conversions
There are two tricks to unit conversion:

- Going to smaller units means going to Digger numbers, so multiply!
- Going to bigeye units means going to smaller numbers, so divide!


Convert 5.2 km to metres

$5.2 \times 1000=5200 \mathrm{~m} \quad \frac{145}{100}=1.45 \mathrm{~m}$

Metric Conversions

$$
1 \mathrm{~km}=1000 \mathrm{~m}
$$

$1 \mathrm{~m}=100 \mathrm{~cm}$
$1 \mathrm{~cm}=10 \mathrm{~mm}$

Example:
Convert 0.6 m to mm
\# must get bigger
so we $x$
$0.6 \times 100 \times 10=600 \mathrm{~mm}$ $\uparrow \uparrow$ to cm tum

Unit Analysis
This is the fail-safe way to do unit conversions in case you forget how much you need to multiply or divide by! Set up your conversion factors (fractions) and cancel out the units.


Example:
Convert 8 mm to cm

Example:
Convert 2400 mm to m

Example:
Convert 0.25 km to cm


