MATH 10 - UNIT 1 - LESSON 1 - UNIT CONVERSIONS

MEASUREMENT UNIT

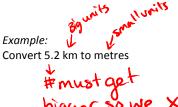
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Unit Conversions

There are two tricks to unit conversion:

- Going to smaller units means going to **bigger** numbers, so multiply!
- Going to **bigger** units means going to **smaller** numbers, so divide!

Metric Conversions 1 km = 1000 m 1 m = 100 cm 1 cm = 10 mm



Example:

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

$$\frac{8mm}{1} \times \frac{1}{10} \frac{cm}{mm}$$

$$= \frac{8}{10} \text{ cm} = 0.8 \text{ cm} = \frac{2400}{1000} \text{ m}$$

$$= 2.4 \text{ m}$$