

## What's Going On?

**Checking In**

**Minds on**

Metric and Imperial Vortex

**Action!**

Estimating, Asking Siri

**Consolidation**

Unit Conversions

**Learning Goal - I will be able to convert within and between the imperial and metric systems of measurement.**

The interface is enclosed in a blue border. At the top left is an 'Edit' button. At the top center is a 'Reset' button. At the top right is a circular help icon containing a question mark. In the center, there are two target icons: a purple one labeled 'Metric' and a dark green one labeled 'Imperial'. At the bottom, there are eight blue buttons arranged in two rows of four. The top row contains 'kilometre', 'kilogram', 'centimetre', and 'metre'. The bottom row contains 'ounce', 'inch', 'foot', and 'yard'.

## **Action!**

### Estimating, Asking Siri

First, with a partner, complete the "estimate" columns on the front and back of your sheet.

Then, get out an iPad and find the correct answers online. You don't have to use Siri, but you can!

## Consolidation

# Unit Conversions

Now that we have a nice summary table of all of our unit conversions, let's convert some units!

To do this, first set up some ratios!

Always put the unit you are looking for (cm, km, miles, ...) on top. That way, the cross multiplication is nice and easy!

You will set up two ratios:

1 ratio using the numbers from your question

1 ratio using the numbers from your conversion sheet

## Consolidation

### Unit Conversions

Now that we have a nice summary table of all of our unit conversions, let's convert some units!

- \* Back in my day, bottles of pop were 600 mL.  
How many fluid ounces is this?

There are 29.573 mL in one fluid ounce.

$$\cancel{600} \times \frac{f \text{ fl. oz.}}{600 \text{ mL}} = \frac{1 \text{ fl. oz.}}{29.6 \text{ mL}} \times 600$$

$$f = \frac{1 \times 600}{29.6} \quad f = 20.3$$

∴ about 20 fl. oz. are in 600 mL

One cup is 8 fluid ounces. How many mL is this?

$$\cancel{8} \times \frac{X \text{ mL}}{8 \text{ fl. oz.}} = \frac{29.6 \text{ mL} \times 8}{1 \text{ fl. oz.}}$$

$$X = 236.8 \text{ mL}$$

∴ there are about 237 mL in a cup

## Consolidation

### Unit Conversions

# Partner Practice

## Consolidation

Crossing the Border

# Partner Assignment