**Chapter 8.1: The Metric System**

To measure an item it is important to select a suitable unit. Sometimes you may want to express a measurement in more than one unit. For example Janice measures the height from the floor to the bottom of the cupboard in the home she just bought to make sure she buys a refrigerator that will fit. The height is 175 cm. This can also be expressed as 1.75 m.

The 4 metric units used to measure length are: Millimeters (mm), Centimeters (cm), Meters (m), Kilometers (km)

What metric units would you use to measure the following?

1. The length of a salmon
2. The thickness of a coin
3. The height of an apartment building
4. The distance from Hopedale, NL to Montreal QC

You can convert between SI units by multiplying or dividing by the appropriate power of 10.

10 mm = 1 cm

100 cm = 1m

1000 m = 1km

**Example:** 1.47 km = \_\_\_\_\_\_ m

1000 m = 1 km

1.47 x 1000 = 1470

Example: 254 cm = \_\_\_\_\_ m

100 cm = 1m

254 / 100 = 0.254 m

**Convert the following:**

1. 4.5 meters 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ cm
2. 275 millimeters 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cm
3. 1500 meters 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ km
4. 1m 80 cm 🡪 \_\_\_\_\_\_\_\_\_\_ cm 🡪 \_\_\_\_\_\_\_\_\_\_\_\_ m

Complete Questions 4, 7, 8, - 17 on page 147 - 148

Hand in Questions: 12, 13, 15