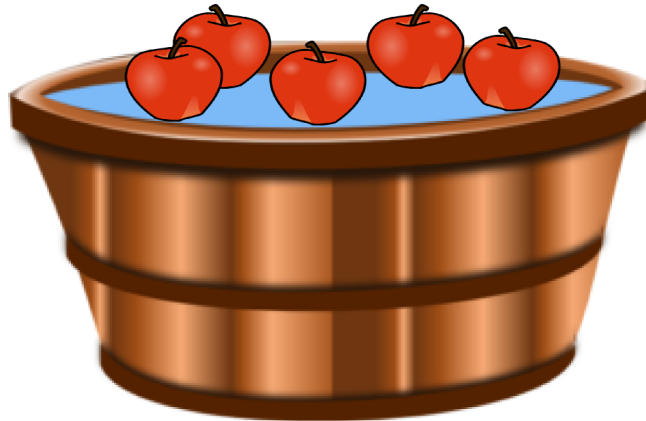# Metric Measurement #2
Bobbing for Apples

Using the chart below, answer the following questions.

> 1 liter (L) = 1,000 milliliters (mL)
>
> 1 milliliter (mL) = 1 cubic centimeter (cm³)

1. If the bucket is filled with 6 liters (L) of water, how many milliliters (mL) of water are in the bucket?

> Since 1L = 1,000mL, multiply both sides by 6:
> 6 x 1L = 6 x 1,000mL:
> 6L = 6,000mL

2. Based on your answer from question 1, how many cubic centimeters (cm³) of water are in the bucket?

> Since 1mL = 1cm³, then however many mL you have,
> you have the same amount of cm³.
> Therefore, you have 6,000cm³ of water.

3. With all the splashing around from bobbing for the apples, the bucket loses 2 liters (L) of water. How many milliliters (mL) of water did the bucket lose? How many liters (L) of water are left in the bucket? How many milliliters (mL) are left?

> Since 1L = 1,000mL, multiply
> both sides by 2:
> 2 x 1L = 2 x 1,000mL:
> 2L = 2,000mL lost

> 6L – 2L = 4L left in the bucket
> Since 1L = 1,000mL, multiply
> both sides by 4:
> 4 x 1L = 4 x 1,000mL
> 4L = 4,000mL left in the bucket