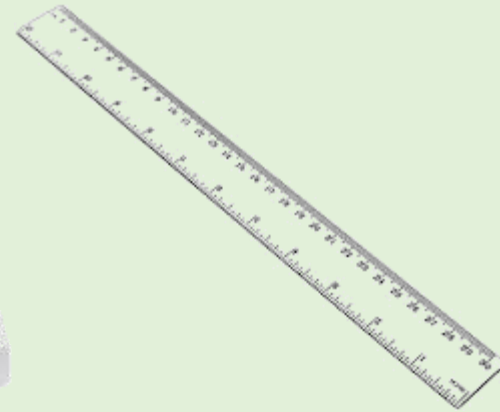


WALT apply our understanding of metric units.

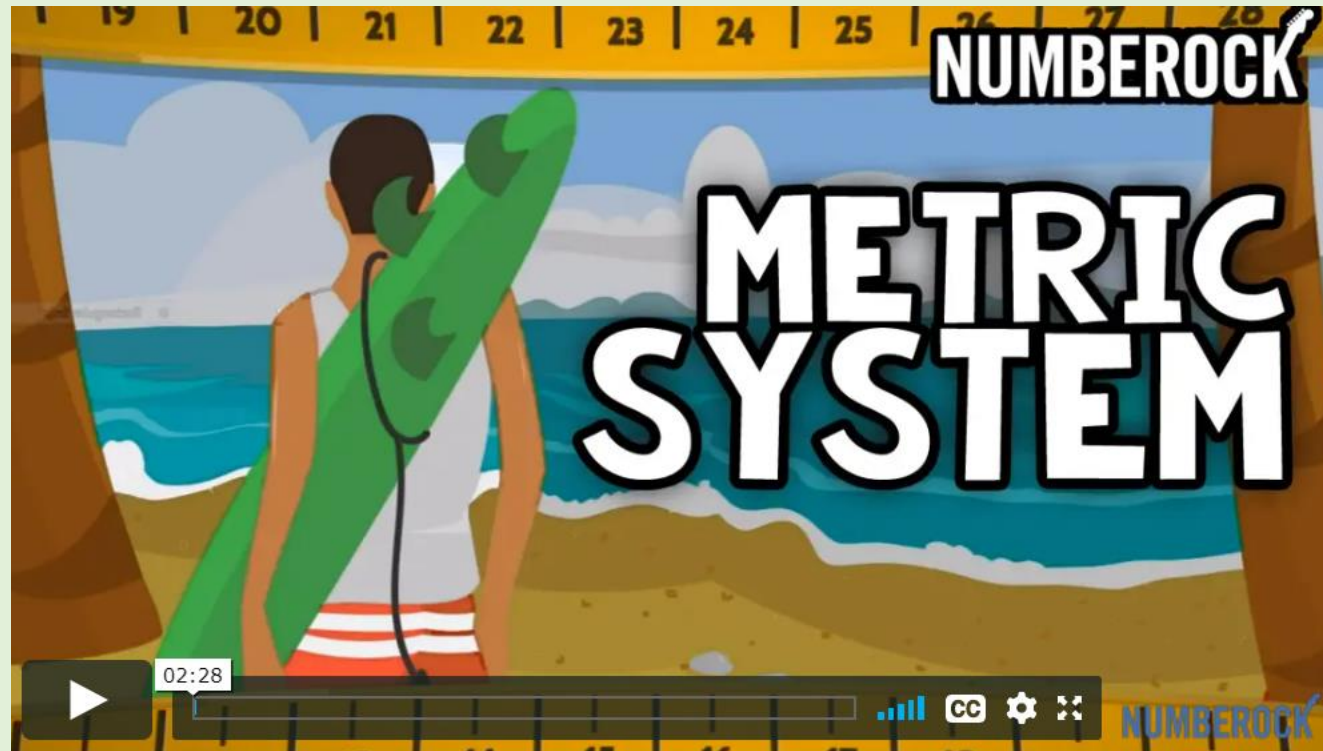
WILF:

- Carefully find the unit
- Remember the conversion rate needed
- Use multiplication or division to convert units



Let's recap the different metric measurements and their conversions.

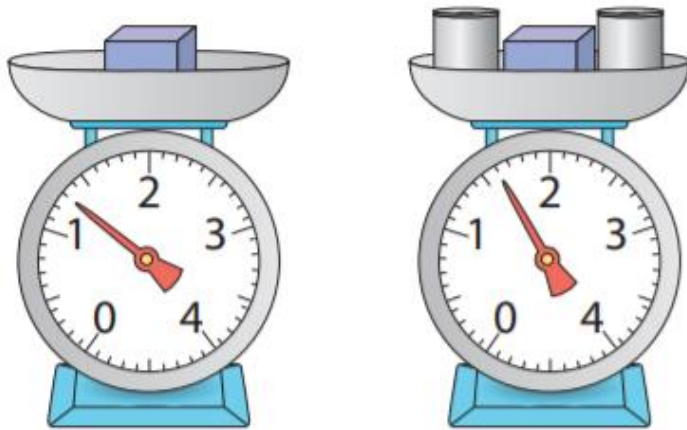
Watch this fabulous video song to help you remember.
You can even sing along! (Miss Lester did 😊.)



Today we are going to apply our conversion to different problems involving metric units. How would we approach these questions?

A box weighs 1.3 kg. A box and two tins weigh 1.6 kg.

How much does one tin weigh in grams?



Complete this:

$$\frac{1}{2} \text{ kg} = \text{ ______ } \text{ g}$$

$$\frac{1}{4} \text{ kg} = \text{ ______ } \text{ g}$$

Which has the greater mass?

$$\frac{1}{5} \text{ kg} \text{ or } \frac{1}{10} \text{ kg}$$

Explain why.

The weight of a football is 400 g. How much do five footballs weigh in kilograms?

First, read the question very carefully. What is it asking you to do? Underline key words if you need to.

Then, convert what you need to. For example, kg to g, fractions to decimals.

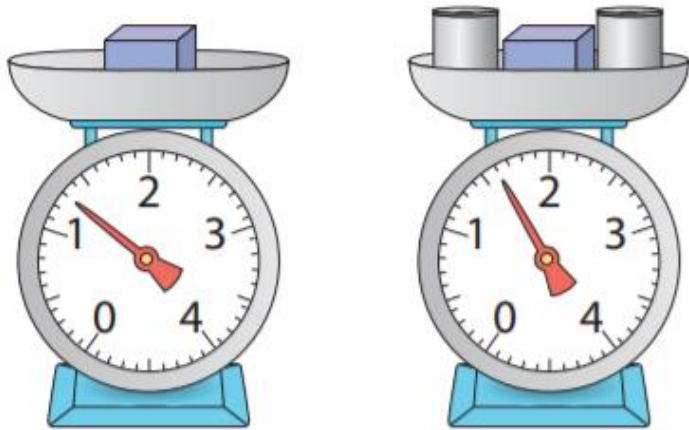
Next, use the operation required - for example, if it's asking for twice as many, you'll need to multiply by 2.

Finally, explain how you know you are correct. This is because....

Have a go at these.

A box weighs 1.3 kg. A box and two tins weigh 1.6 kg.

How much does one tin weigh in grams?



Complete this:

$$\frac{1}{2} \text{ kg} = \text{ ______ g}$$

$$\frac{1}{4} \text{ kg} = \text{ ______ g}$$

Which has the greater mass?

$$\frac{1}{5} \text{ kg or } \frac{1}{10} \text{ kg}$$

Explain why.

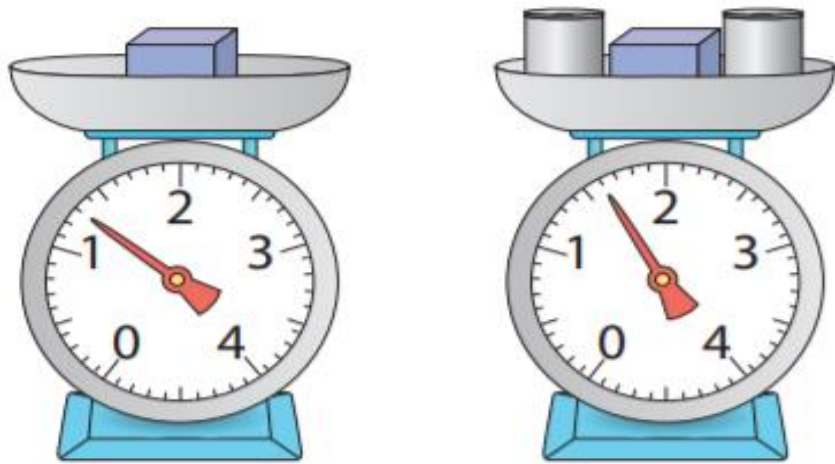
The weight of a football is 400 g. How much do five footballs weigh in kilograms?

1: We know how much a box weighs (1.3kg). We are then told how much a box and two tins weigh. So, subtract the box amount from this. $1.6 - 1.3 = 0.3$

That is the weight of 2 tins. We need the weight of 1. Divide by 2 to get 0.15, then multiply by 1000 to get your grams. $0.15 \times 1000 = 150\text{g}$

A box weighs 1.3 kg. A box and two tins weigh 1.6 kg.

How much does one tin weigh in grams?



1

Complete this:

$$\frac{1}{2} \text{ kg} = \text{---} \text{ g}$$

$$\frac{1}{4} \text{ kg} = \text{---} \text{ g}$$

Which has the greater mass?

$$\frac{1}{5} \text{ kg or } \frac{1}{10} \text{ kg}$$

Explain why.

2: Convert the fraction to a decimal. $\frac{1}{2}$ is 0.5kg
Then, multiply by 1000 to get the grams. $0.5 \times 1000 = 500\text{g}$.

$$\frac{1}{4} = 0.25\text{kg} - 0.25 \times 1000 = 250\text{g}.$$

With part 2, you can either convert or use your knowledge of fractions. I know that $\frac{1}{10}$ is smaller than $\frac{1}{5}$, so $\frac{1}{5}$ is the greater mass.

3: One football is 400g. I need the weight of 5, so I multiply 400 by 5 to get 2000. Then, divide 2000 by 1000 to get the kg. The answer is 2kg.

The weight of a football is 400 g. How much do five footballs weigh in kilograms?

Now try today's Activity.

If you get stuck with the conversion rates, you can watch this song again.

