



# Miss Robinson's Maths Group Homework Autumn Week 6



Remember to set your work out clearly and write in pencil.

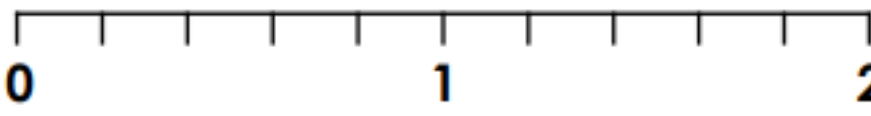
Please try all questions.

Please DO NOT print any of this homework. Write answers directly into your Homework Book and include any working out.

# Arithmetic Warm Up

Put the following fractions on the number line

Label each of the children's fractions on the number line.

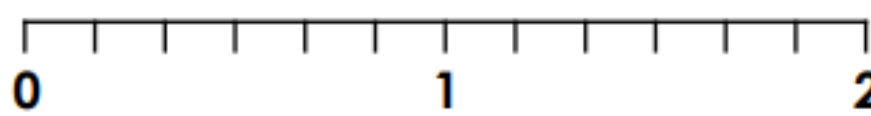


Jack: My fraction is  $\frac{6}{10}$  larger than Max's.

Jess: My fraction is  $\frac{1}{5}$  smaller than 2.

Max: My fraction is  $1\frac{1}{5}$  smaller than Jess's.

Label each of the children's fractions on the number line.



Juno: My fraction is  $\frac{8}{6}$  smaller than Lara's.

Lara: My fraction is  $\frac{5}{15}$  smaller than 2.

Cain: My fraction is  $\frac{9}{9}$  larger than Juno's.

# Arithmetic Warm Up

Find the fractions of amounts.

Example:  $\frac{2}{3}$  of 45     $45 \div 3 = 15$  (this is equivalent to  $\frac{1}{3}$ ) then  $\times 2$  to find  $\frac{2}{3}$  so the answer is 30.

$$\frac{3}{4} \text{ of } 40$$

$$\frac{2}{9} \text{ of } 18$$

$$\frac{7}{8} \text{ of } 56$$

$$\frac{4}{9} \text{ of } 27$$

$$\frac{5}{6} \text{ of } 66$$

$$\frac{7}{10} \text{ of } 200$$

$$\frac{4}{5} \text{ of } 20$$

This week we have been looking at conversions between metric units of measure – and will then move on to looking at imperial measures.

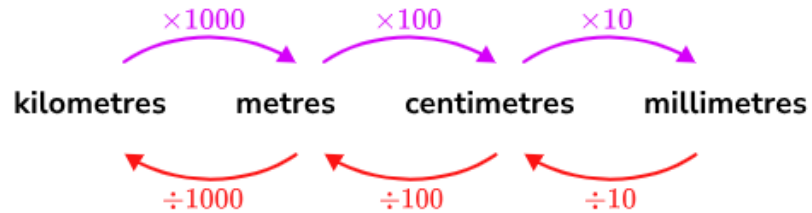
## Length/Distance

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ m} = 1000 \text{ mm}$$

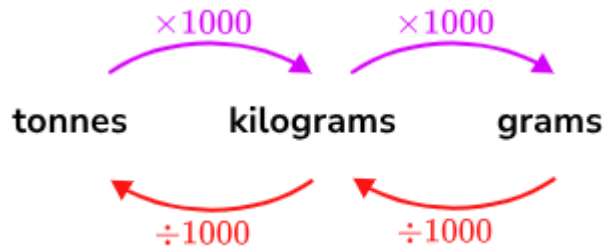
$$1 \text{ cm} = 10 \text{ mm}$$



## Mass

$$1 \text{ tonne} = 1000 \text{ kg}$$

$$1 \text{ kg} = 1000 \text{ g}$$

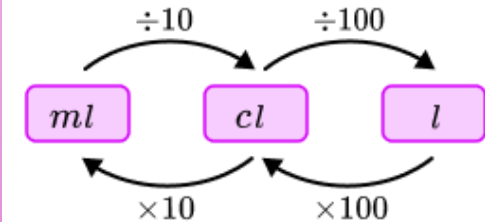


## Capacity

$$1 \text{ litre} = 1000 \text{ ml}$$

$$1 \text{ litre} = 100 \text{ cl}$$

$$1 \text{ cl} = 10 \text{ ml}$$



# LI: to know and be able to convert between standard metric units

Show all your working out.

A bag contains 200 sweets.

Each sweet weighs 1.5 g.

The bag itself weighs 16 g.

Huan has some bags of sweets.

The total mass is 1.264 kg.

How many bags of sweets does Huan have?

Esther drinks 250 ml of juice.

Kim drinks 3 times as much.

▶ How much does Kim drink?

Give your answer in litres.

▶ How much do Esther and Kim drink in total?



# LI: to know and be able to convert between standard metric units

Here is a recipe for 8 cupcakes.

Cupcakes (makes 8)

100 g butter

100 g sugar

2 eggs

1 tsp vanilla extract

120 g flour

4 tbsp milk

a) Complete the recipe for 24 cupcakes.

Cupcakes (makes 24)

butter

eggs

flour

sugar

vanilla extract

milk

# LI: to know and be able to convert between standard metric units

## Cupcakes (makes 8)

100 g butter

100 g sugar

2 eggs

1 tsp vanilla extract

120 g flour

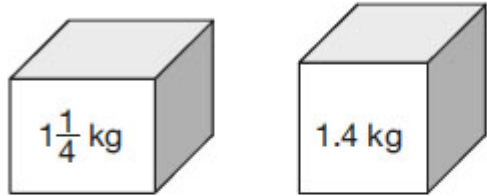
4 tbsp milk

**b)** Mo has half a kilogram of butter and plenty of the other ingredients.

What is the greatest number of cupcakes he can make using this recipe?

# LI: to know and be able to convert between standard metric units

Here are two boxes.



The mass of the first box is  $1\frac{1}{4}$  kilograms.

The mass of the second box is **1.4** kilograms.

What is the **difference** in mass of the two boxes?

Give your answer in kilograms.

A 4 kilogram bag of rice costs £6

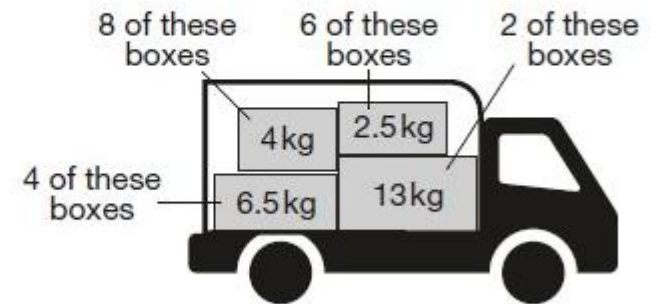
What is the cost of 500 grams of the rice?

Convert **5.65km** to metres.

Convert **35.5cm** to metres.

There are 20 boxes on a truck.

The boxes are in 4 different sizes.



What is the **total mass** of the 20 boxes on the truck?

The mass of a **1p** coin is 3.56 g

The mass of a **10p** coin is 6.5 g



What is the **difference** in mass between £1 in 1p coins and £1 in 10p coins?

Remember to bring any questions about the work into Monday's lesson.

Have a wonderful weekend!