Last week, we started our work on measures.

We learned to convert between units of length.

Today, we will focus on units of mass.

Watch this video to find out more about mass/weight:

https://www.youtube.com/watch?v=GNcA-bD7F68

The best way to practise weight and measuring mass at home is through cooking! Why not bake a cake or create another recipe to practise reading scales?
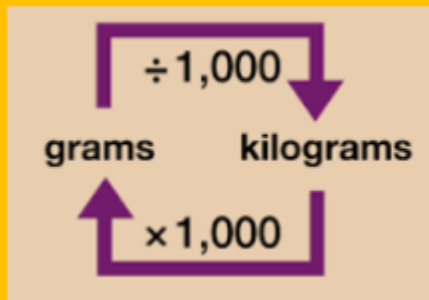
We know there are 1000g in a kilogram, so we need to use our knowledge of multiplying and dividing by 1000 to convert between these units of measurement.
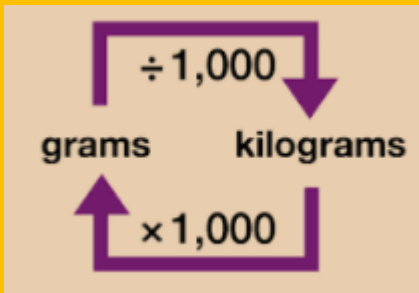
÷1,000

grams   kilograms

×1,000

To convert from g to kg we ÷ 1000.

To covert from kg to g we x 1000.

Here are some examples:

÷1,000
grams → kilograms
×1,000

To convert from g to kg we ÷ 1000.

To covert from kg to g we x 1000.

g – kg = ÷ **1000**

12 kg = 12,000 g

kg - g = **x 1000**

31,400 g = 31.4 kg

g – kg = ÷ **1000**

21,500 g = **21.5** kg

kg - g = **x 1000**

10,000 g = 10 kg

Remember to use a place value chart to help you multiply and divide by 1000!

M	Hth	Tth	Th	H	T	O	t	h	th
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
1 000 000	100 000	10 000	1000	100	10	1	0.1 $\frac{1}{10}$	0.01 $\frac{1}{100}$	0.001 $\frac{1}{1000}$

3 Complete so that each line adds up to 70km.
Give your answers in metres.

(10,000m)——( )——(20km)

(30,000m)——(30km)——( )

1

Kilograms	Grams		Kilograms	Grams
6.371				9594
5.079				7865
3.213				7426
7.418				7702
4.402				6916

4 **True or False?**

2

A bag of apples weighs 600 g.

How much do 8 bags of apples weigh?
Give your answer in kilograms.

600 g

1 kg

g
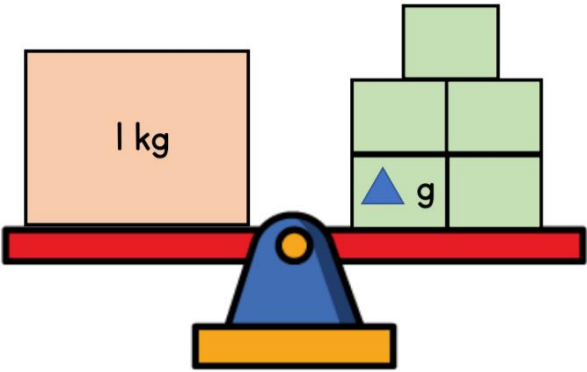
▲ = 20g

1 Complete the conversions below.

___ kg = 16,000 g

_____ g = 62.3 kg

23,500 g = ___ kg

_____ g = 100 kg

2 Write <, > or = to compare the measurements.

5,000 g + 2 kg ◯ 5.5 kg + 1,500 g

3.7 kg ◯ 3,200 g

3 Ron buys 3.8 kg of potatoes and 1,250 g of carrots.

He pays with a £20 note.

How much change does he get?

26p per 100 g

£1.24 per kg

4 Complete the circles so that each line adds up to 4,000g in every direction. Give your answer in kilograms.

1,200g —— ◯ —— 2,300g

◯ —— 1.0kg —— $\frac{7}{10}$ kg

3 Ron buys 3.8 kg of potatoes and 1,250 g of carrots.

He pays with a £20 note.

How much change does he get?

26p per 100 g

£1.24 per kg
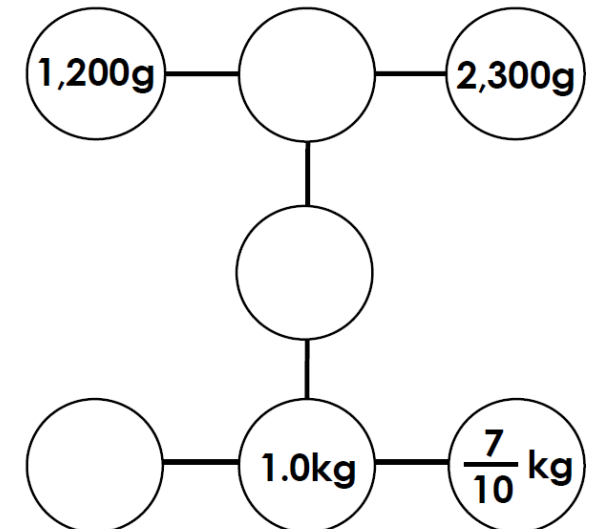
1 Complete the conversions below.

___ km = 16,000 m

14.5 km = _____ m

___ kg = 16,000 g

_____ g = 62.3 kg

23,000 m = ___ km

___ km = 300 m

23,500 g = ___ kg

_____ g = 100 kg

4 . Complete the circles so that each line adds up to 8.3kg in every direction. Give your answer in kilograms.

1.21kg — ◯ — 2,350g

◯

◯ — 1.25kg — $\frac{9}{10}$ kg

5 A pear weighs 252g.

10 pears would cost less than £4.75

£1.90 per kg
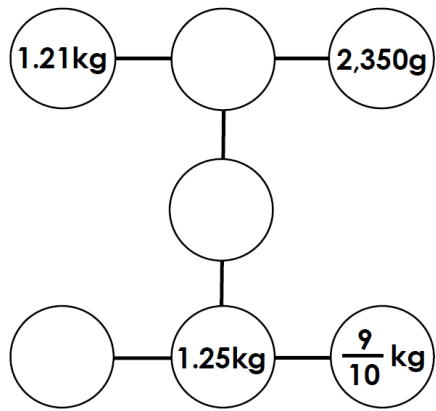
Is Harrison correct?
Explain how you know.

2

Write <, > or = to compare the measurements.

a) 0.5 km ◯ 600 m

c) 5,000 g + 2 kg ◯ 5.5 kg + 1,500 g

b) 3.7 kg ◯ 3,200 g

d) $\frac{7}{10}$ km + $\frac{3}{10}$ km + 965 m ◯ 817 m + 1 km