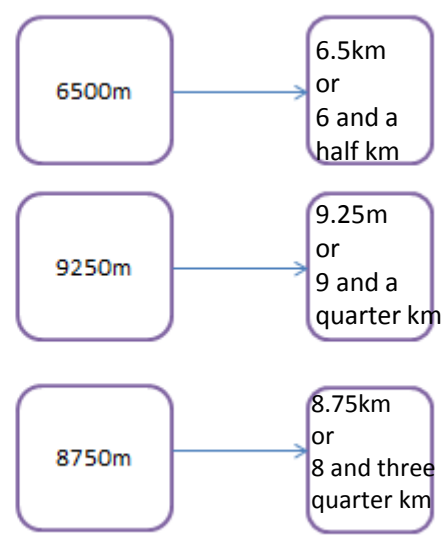
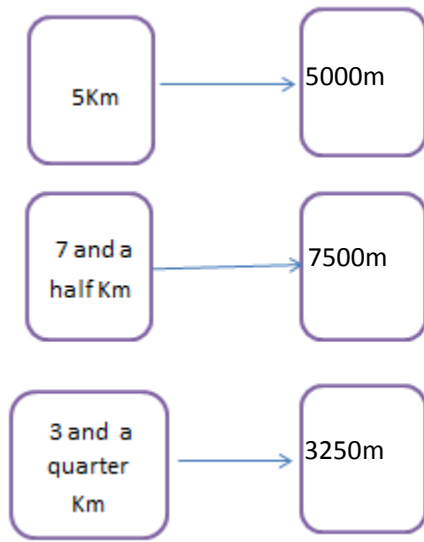


Answers from yesterday's
work.....



Kilometres	Metres
2.852km	2852m
4.32km	4320m
8.9km	8900m
9.06km	9060m

Metres	Kilometres
3568m	3.568km
4113m	4.113km
6580m	6.58km
8600m	8.6km
7070m	7.07km

Use < or > to compare these measurements:

$8756\text{m} > 6.342\text{km}$

$7.841\text{km} > 2560\text{m}$

$2.3\text{km} = 2300\text{m}$

$3\text{km} < 3715\text{m}$

$3.2\text{km} < 4100\text{m}$

$6800\text{m} > 6.3\text{km}$

$4.35\text{km} = 4350\text{m}$

$3.048\text{km} = 3048\text{m}$

$2.5\text{km} > 2005\text{m}$

Order these measurements from shortest to longest:

Shortest



Longest

2075m

2.75km

4.25km

4255m

6km

Convert the measurements given in metres to kilometres, and the measurements given in kilometres to metres:

Kilometres	Metres	X or ✓	Correct Measurement
4.744km	<i>4744m</i>	✓	
2.356km	<i>23.56m</i>	X	<i>2356m</i>
3.21km	<i>321m</i>	X	<i>3210m</i>
4.63km	<i>4630m</i>	✓	

L.O: To be able to convert between
different units of measure

Today we will be looking at 'Mass' used when you are weighing something.

The measurement used are Kilograms and grams. (kg and g)

What can you think of in everyday life when this measurement is used? Write down a couple of examples.

By the end of the lesson you should be able to:

Multiply by 1000 to convert measurements from kilograms to grams.

Divide by 1000 to convert measurements from grams to kilograms.

Convert between grams and kilograms to solve problems.

You may notice these are similar from yesterday so the actual maths and example of it will be pretty much the same 😊

Yesterday we worked with
Kilometres; today we are working
with **Kilo**grams....

What do you think Kilo means ?

Which do you think is the most sensible measurement for this object?
Write them in your book!

10g	1kg	100g
-----	-----	------



100g

100g

1kg

10kg



1kg

150g

15kg

5kg



15kg

3000g

9kg

300g



9kg

1000g

10kg

10g



10kg

130g	1.3g	13g
------	------	-----



13g

Converting From Kilograms to Grams

$$7\text{kg} = 7000\text{g}$$

As we have said....kilo means 1000 – there are 1000g in a kilogram.

$$7 \times 1000 = 7000$$

To multiply by 1000, each digit moves three places to the left.

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			7	•		

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
7	0	0	0	•		

It is the same as you did yesterday for kilometres to metres...

When we have moved the digits, if there are no digits in a column before the decimal place then we place a zero in this column as a 'placeholder'.

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			2	7		

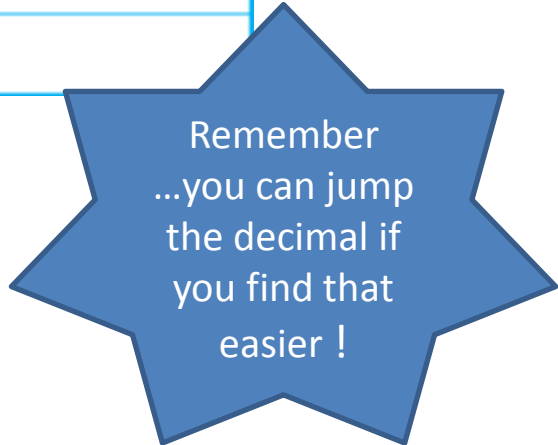


thousands	hundreds	tens	ones	tenths	hundredths	thousandths
2	7	0	0			

Converting From Kilograms to Grams

In your book: convert each measurement from kilograms to grams by multiplying the number by 1000.

Kilograms	Grams
4.795kg	
6.238kg	
15.089kg	
3.75kg	
12.96kg	
14.1kg	



Remember
...you can jump
the decimal if
you find that
easier !

Converting From Grams to Kilograms

$$2000\text{g} = 2\text{kg}$$

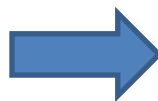
It is just the opposite of what we have just done. The bigger the measurement, the smaller the number!

To convert from kilograms to grams, we divide by 1000 – just like we would divide by 1000 to convert from metres to kilometres.

$$2000 \div 1000 = 2$$

To divide by 1000, each digit moves three places to the right.

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
2	0	0	0	.		



thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			2	.		

When we have moved the digits, there might be zeros at the very end of the number after the decimal place...

2450g =

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
2	4	5	0			



2450g = **2.45kg**

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			2	4	5	

... They have no value so we do not need to write them.

$$2405\text{g} =$$

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
2	4	0	5	•		



In this measurement, we do include the zero after the decimal place as there is another digit after it.

$$2405\text{g} = \mathbf{2.405\text{kg}}$$

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
			2	•4	0	5

Converting From Grams to Kilograms

In your book: convert each measurement from grams to kilograms by dividing the number by 1000.

Grams	Kilograms
3467g	
2119g	
5008g	
1250g	
13 880g	
12 500g	

The next few questions are for you to do in
your book 😊



George and Maisie went on a litter pick. George's recycling had a mass of 7.8kg, Maisie's was 500g lighter....How much was Maisie's?

Finn and Freya were in charge of recycling the glass bottles and food waste. Finn's total mass was 2421g , Freya's was 1.2kg more – how much was Freya's mass?



- How many mm in 4cm?
- 500mm is how many cm?
- 580mm = _____ cm
- I jump 54cm. How far is this in mm?
- 96cm = _____ cm

- How many m are there in 800cm?
- How many cm are there in 9.54m?
- The classroom is 10m wide. How many cm is this?
- 10.58m = _____ cm
- 15cm = _____ m

- 5km = _____ m
- I walk 750m to school. How far is this in km?
- Charlie runs 2.5km around the park. How far is this in m?
- How many km in 11,584m?
- What is 14.5km in m?