

Maths Week 6 - Lesson 1

Can I convert units of weight?

Fast Five - Answers on the next slide

1) $2300 \div 100 =$

2) $5319 + 74 =$

3) $450 \div 5 =$

4) Mully is hiding behind the biggest multiple of 4 without going past 42, where is he hiding?

5) $5 \times 1000 =$

Fast Five - Answers

1) $2300 \div 100 = 23$

2) $5319 + 74 = 5393$

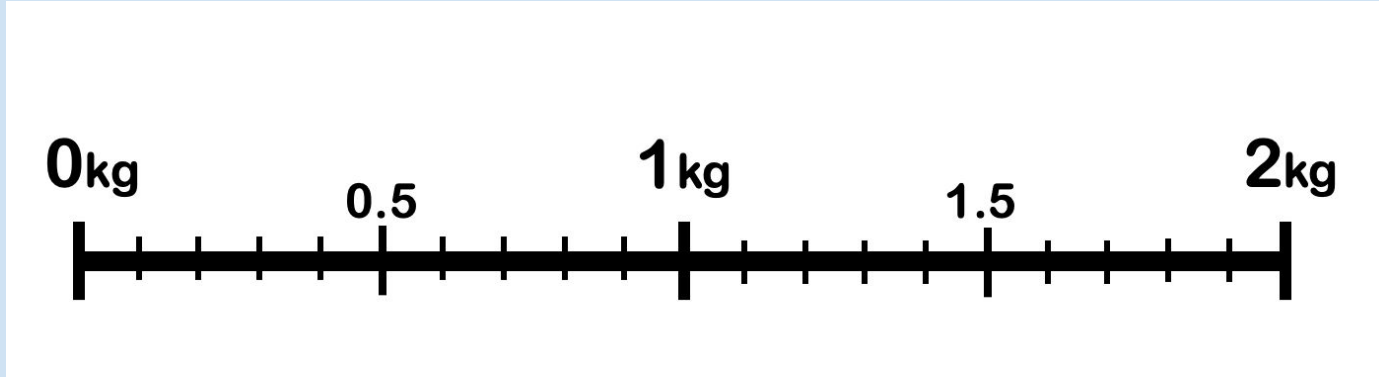
3) $450 \div 5 = 90$

4) Mully is hiding behind the biggest multiple of 4 without going past 42, where is he hiding? 40

5) $5 \times 1000 = 5000$

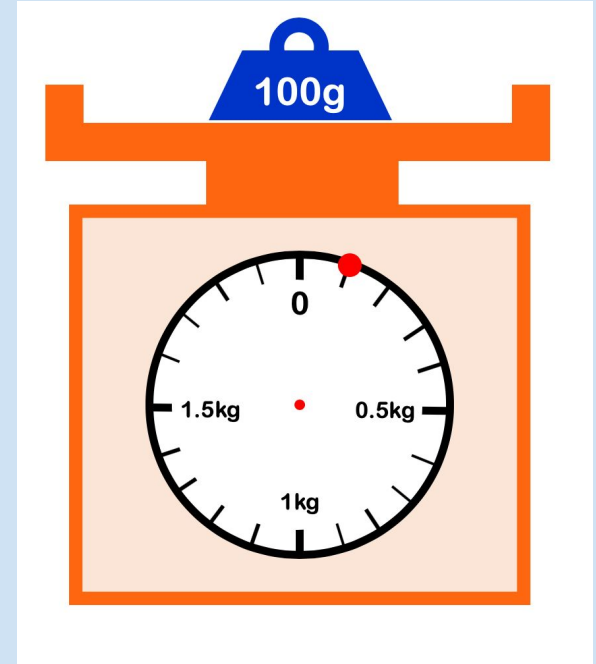
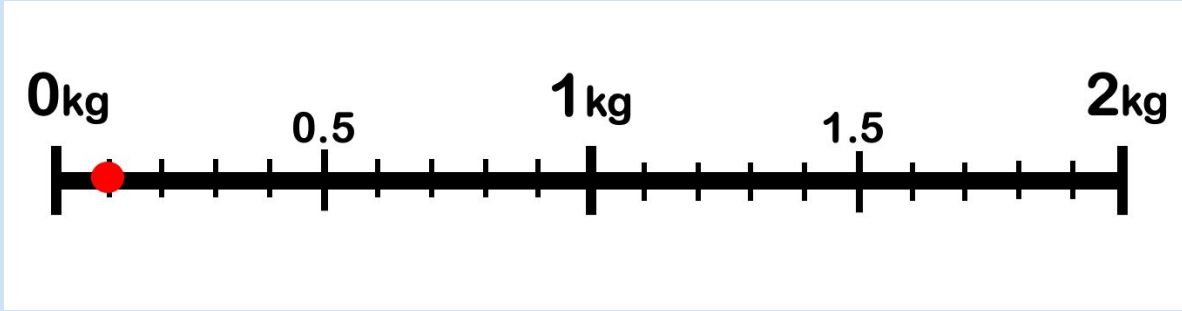
Units of weight

There are different units that we use to measure weight, but today we are going to be looking at grams and kilograms.

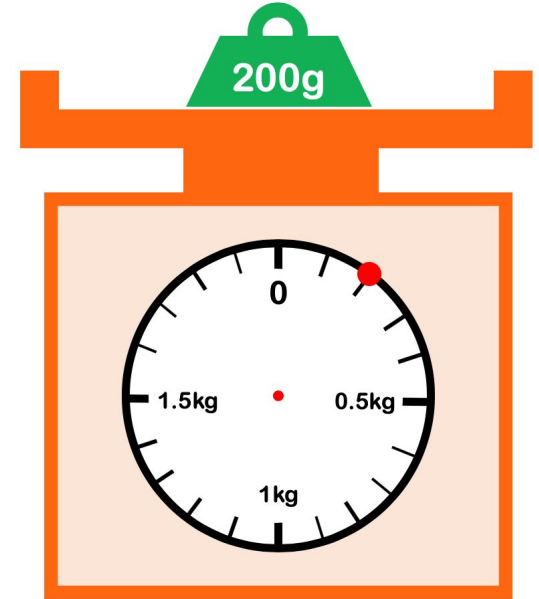
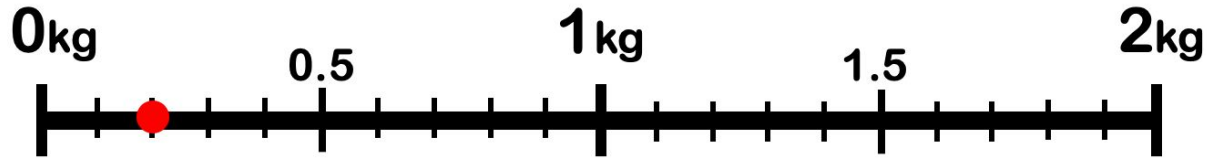


1 kilogram (kg) = 1000 grams (g)

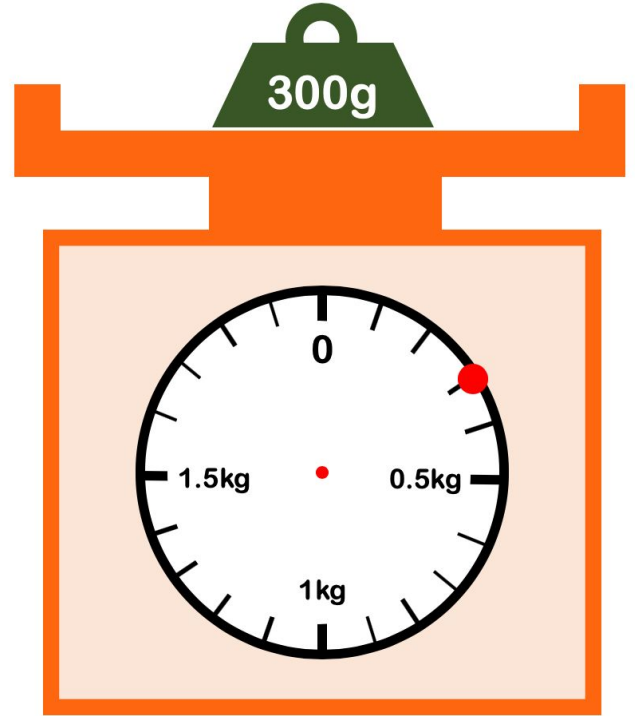
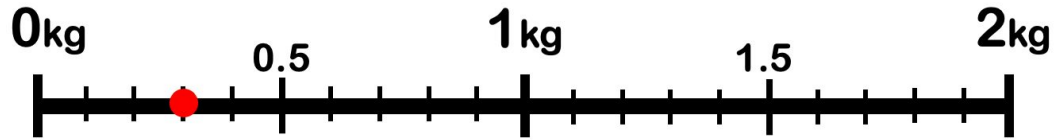
$$0.1\text{kg} = 100\text{g}$$



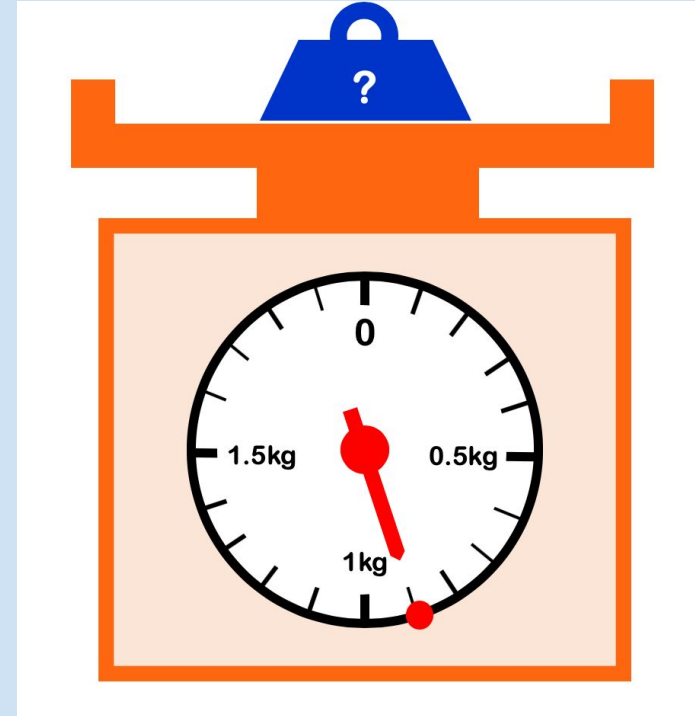
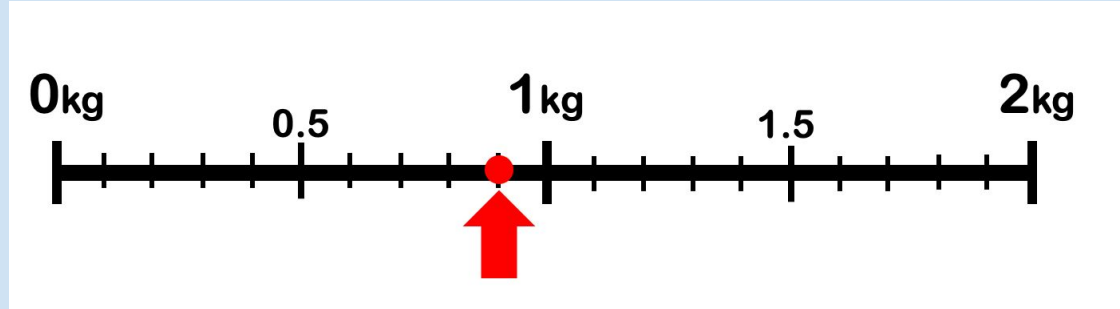
$$0.2\text{kg} = 200\text{g}$$



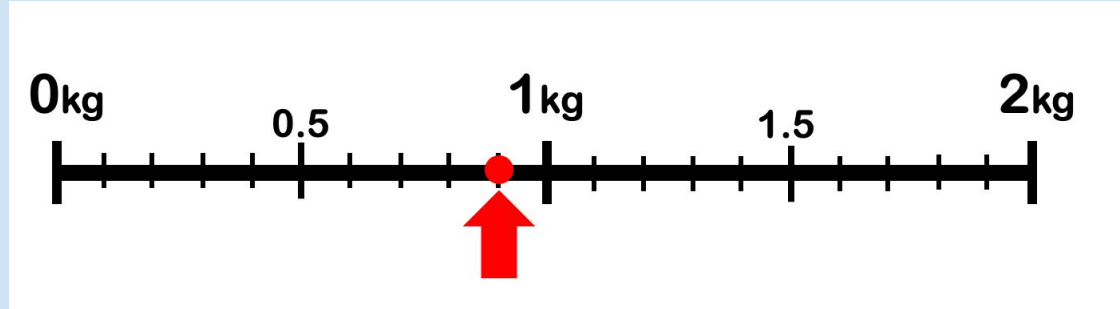
$$0.3\text{kg} = 300\text{g}$$



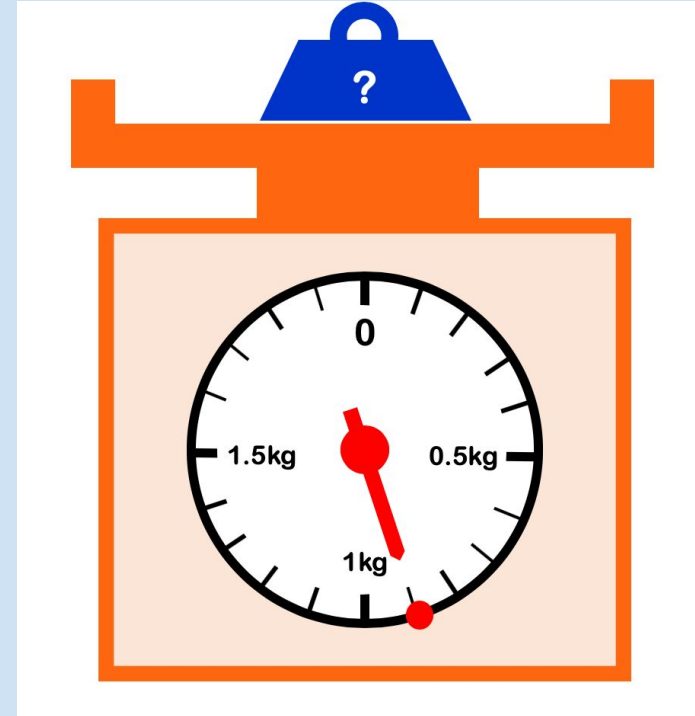
What reading does both scales show?



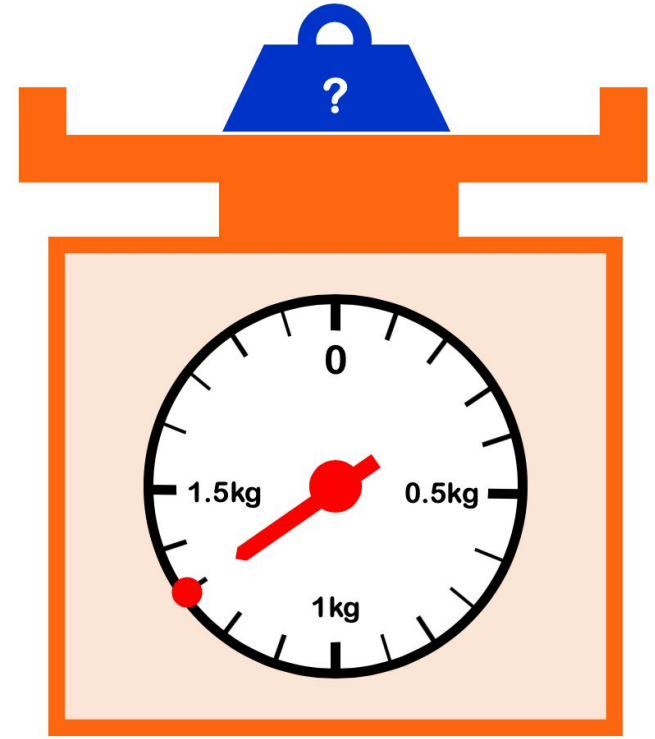
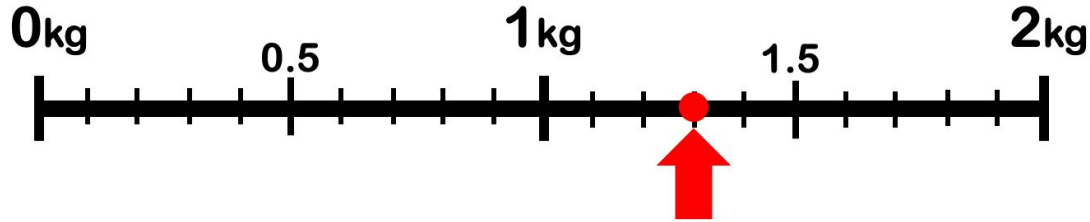
What reading does both scales show?



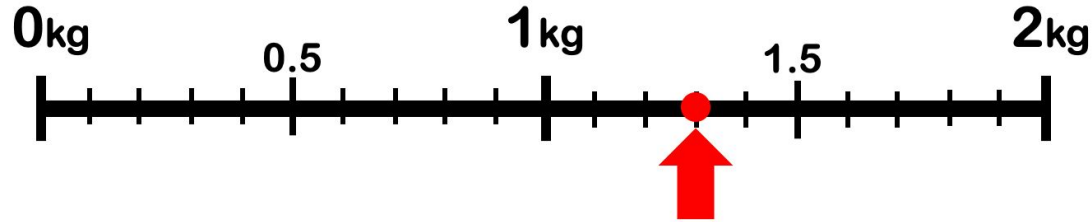
0.9kg or 900g



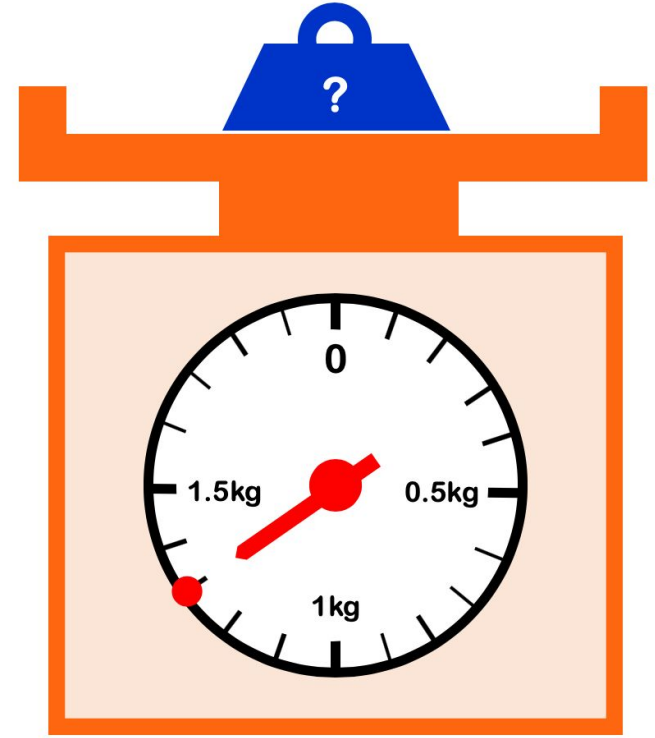
What reading does both scales show?



What reading does both scales show?



1.4kg or 1400g

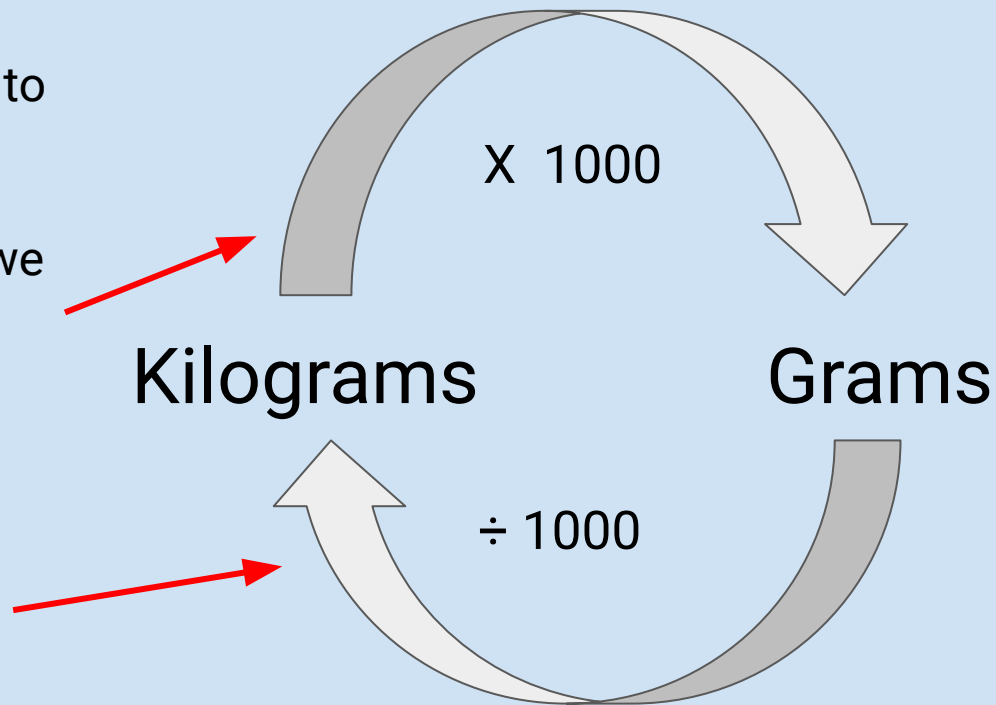


Converting between kilograms and grams

When converting between these units of weight, we can use this diagram to remind us which calculation we need to use.

To convert from kilograms to grams we have to multiply by 1000 - this is because there is 1000 grams in a kilogram.

To convert from grams to kilograms, we then do the inverse operation and divide by 1000.



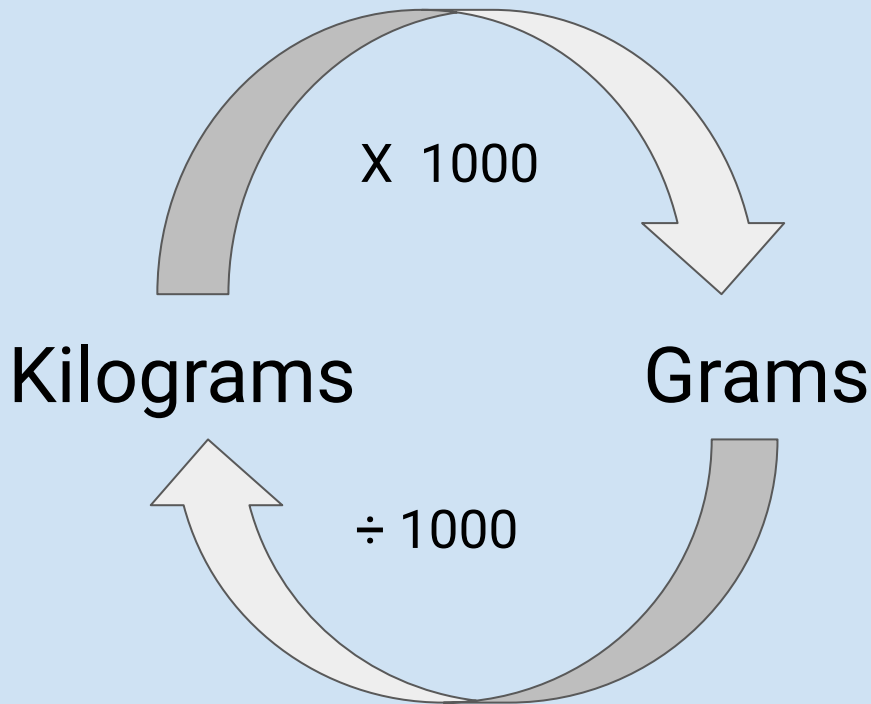
Converting between kilograms and grams

Let's look at an example!

5kg = _____ g

The first step we need to do is look at our diagram and work out which calculation we are going to use.

Will we need to multiply or divide?

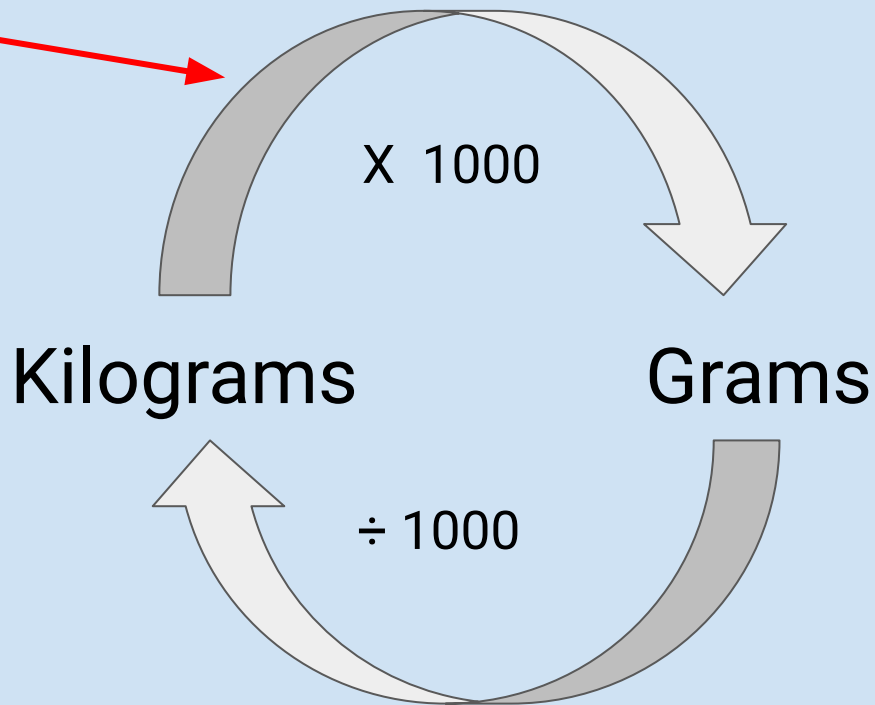


Converting between kilograms and grams

Multiply!

5kg = _____ g

So, we know that we now have to multiply
5 by 1000.



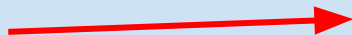
Converting between kilograms and grams

$$5\text{kg} = \underline{\hspace{2cm}} \text{g}$$

Remember to use your place value chart to help you!

$$5 \times 1000 = ?$$

Multiplying by 1000 is similar to when we multiply by 100, except now we have to move the digits across to the left 3 times!



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5

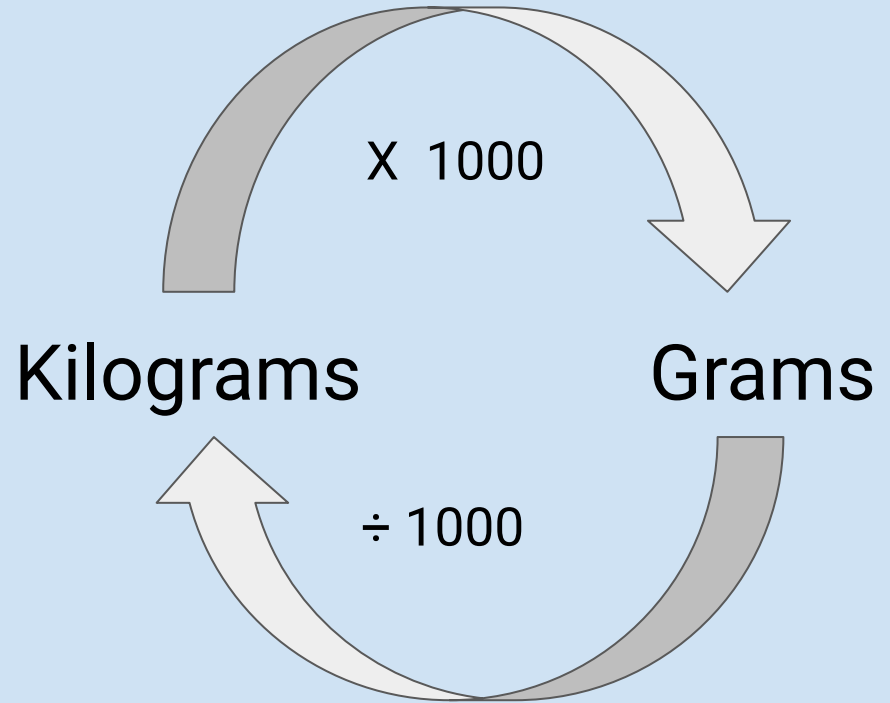


5 0 0 0 grams

Try these examples in your books or on a scrap piece of paper. The answers will be on the next slide!

$$8\text{kg} = \underline{\hspace{2cm}} \text{ g}$$

$$0.1\text{kg} = \underline{\hspace{2cm}} \text{ g}$$



Answers!

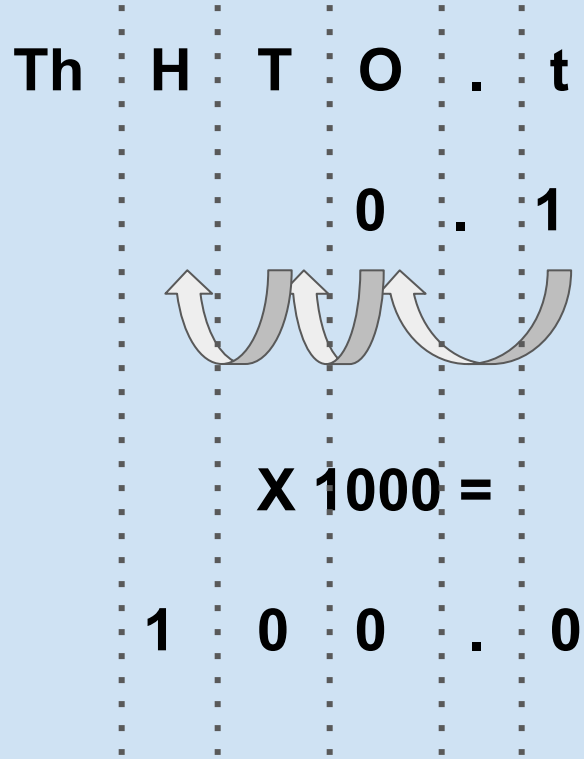
$$8\text{kg} = 8000\text{g}$$

$$8 \times 1000 = 8000$$

This one looks a bit tricky but you use the same method as before!

0.1 kg = 100g

$$0.1 \times 1000 = 100$$



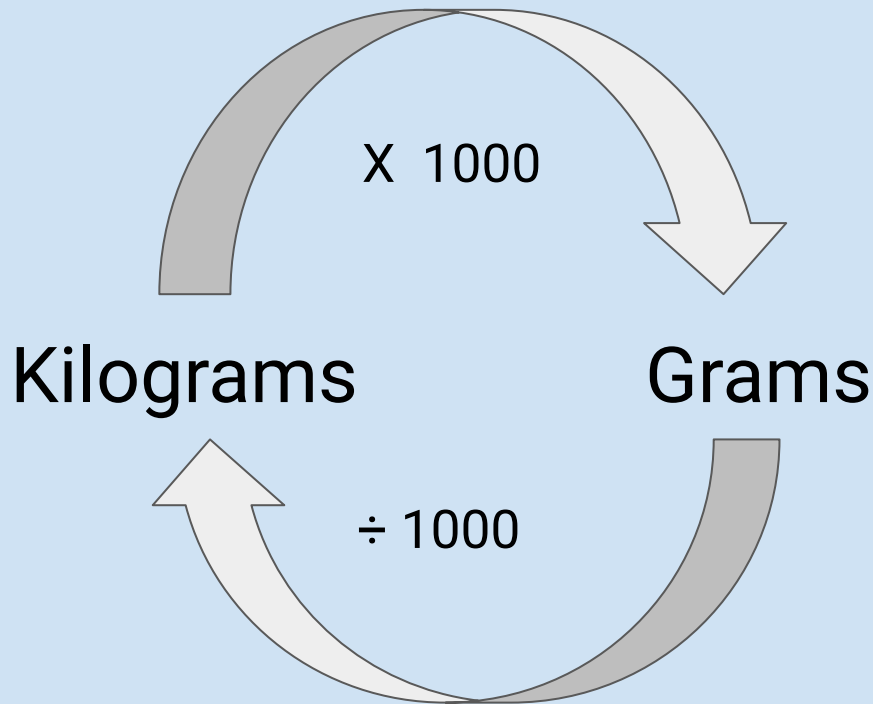
Converting between kilograms and grams

Let's look at an example!

6000g = _____ kg

The first step we need to do is look at our diagram and work out which calculation we are going to use.

Will we need to multiply or divide?



Converting between kilograms and grams

Divide!

$$8000\text{g} = \underline{\hspace{2cm}} \text{kg}$$

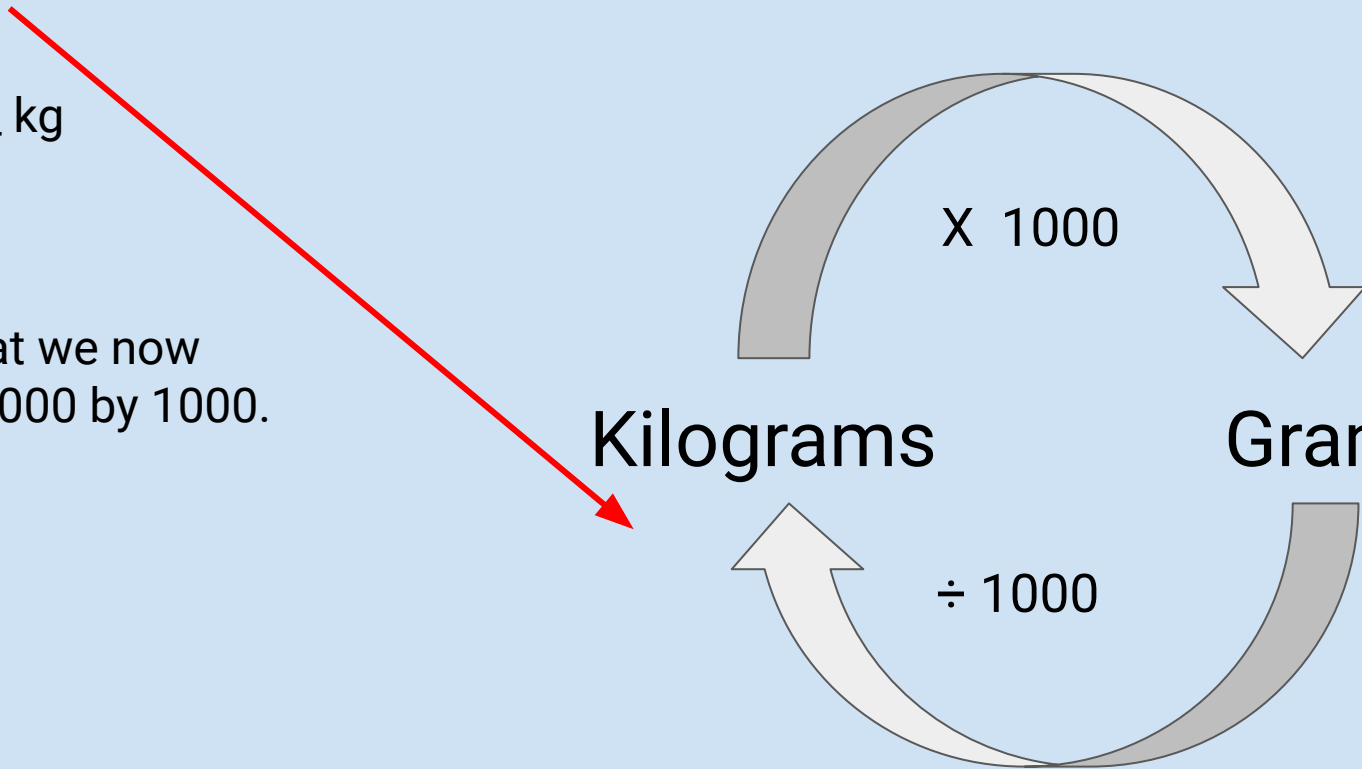
So, we know that we now
have to divide 8000 by 1000.

Kilograms

Grams

$\times 1000$

$\div 1000$



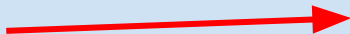
Converting between kilograms and grams

$$8000\text{g} = \text{ ____ } \text{kg}$$

Remember to use your place value chart to help you!

$$8000 \div 1000 = ?$$

Dividing by 1000 is similar to when we divide by 100, except now we have to move the digits across to the right 3 times!



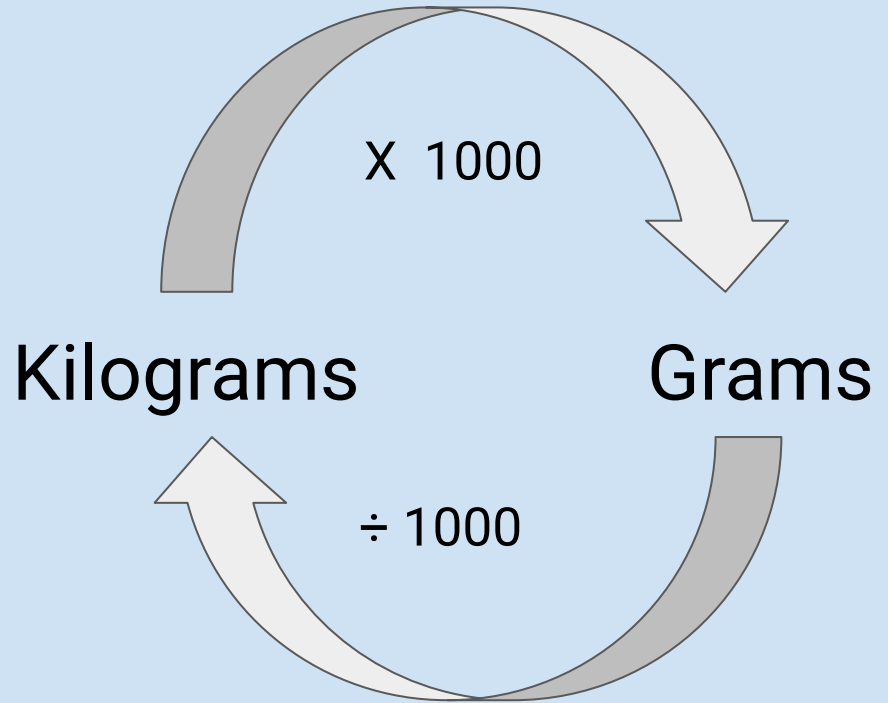
Th	H	T	O	.
8	0	0	0	

8 kilograms

Try these examples in your books or on a scrap piece of paper. The answers will be on the next slide!

$$9000\text{g} = \underline{\hspace{2cm}} \text{ kg}$$

$$4500\text{g} = \underline{\hspace{2cm}} \text{ kg}$$



Answers!

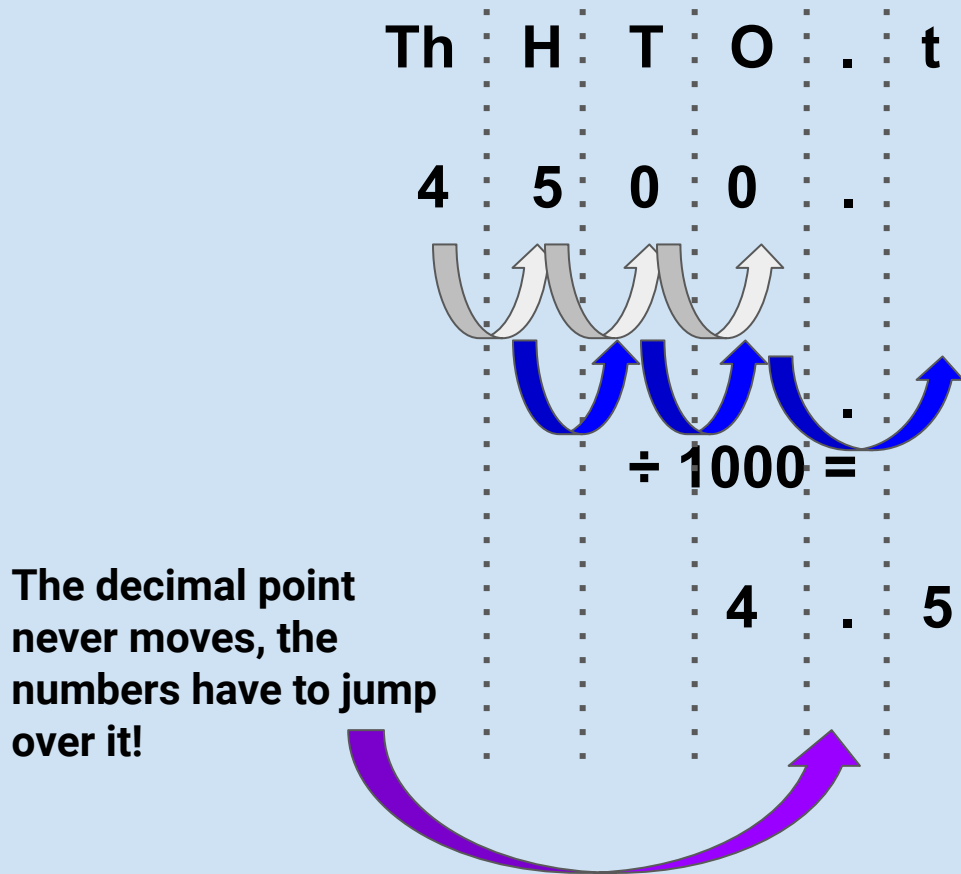
$$9\,000\text{g} = 9\text{ kg}$$

$$9000 \div 1000 = 9$$

This one looks a bit tricky but you use the same method as before!

$$4\,500\text{g} = 4.5\text{kg}$$

$$4500 \div 1000 = 4.5$$



The decimal point never moves, the numbers have to jump over it!

Activities: Use the previous slides to help you remember whether you multiply or divide

Choose the activity that you feel most confident in solving.