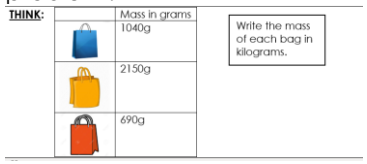
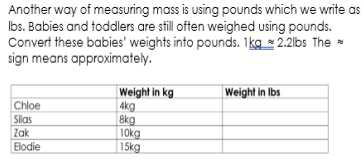
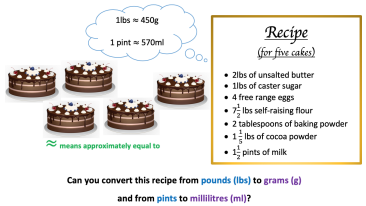
Year 5 Maths – Summer 1 Week beginning: 11.5.20					
Theme	**Converting units of mass Kilograms and grams**	**Converting units of mass. Kilograms and grams**	**Converting units of mass Kilograms, grams and pounds**	**Converting units of imperial units to metric units**	**Units of Measurement Converting units of time**
Factual fluency (to aid fluency)	**Recap your division skills here**	Recap your division skills here	**Recap your division skills here**	**Recap your division skills here**	**Recap your knowledge on units of time here**
Problem/ activity of the day **Remember, just like in class, you can still show the depth of your knowledge Link**	**(Lesson 1 resources below)** **MAKING LINKS:** Last week we learn about converting between grams and kilograms. Remind yourself here. **THINK: (support below)** Can you help me with this problem?  **SEE: (model below)** A good way to solve this is by splitting the numbers up to make them easier to work with. Watch the lesson video here. **DO:** Use what you have learnt today to solve the other problems below.	**(Lesson 2 resources below)** **MAKING LINKS:** Yesterday we practised converting between grams and kilograms. **THINK: (support below)** Can you help me with this problem? These children have been making cakes. Each cake needed the same amount of butter. The children started with the same amount of butter. Emma made 5 cakes and ended up with 1450g of butter left over. Joe made 10 cakes and ended up with 400g butter left over. How much butter did they each start with? **SEE: (model below)** A good way to solve this is using a bar model. Can you guess how it might look? Watch the lesson video here. **DO:** Use what you have learnt today to solve the other problems below.	**(Lesson 3 resources below)** **MAKING LINKS:** Last week we looked at imperial measures - feet and inches. Today we will look at another imperial measure – pounds. See more here. **THINK: (support below)** Can you help me with this problem?  Another way of measuring mass is using pounds which we write as lbs. Babies and toddlers are still often weighed using pounds. Convert these babies' weights into pounds. 1kg ≈ 2.2lbs The ≈ sign means approximately. **SEE: (model below)** Watch the lesson video here. **DO:** Use what you have learnt today to solve the other problems below.	**(Lesson 4 resources below)** **MAKING LINKS:** Yesterday we converted units of mass, including kg and lbs. **THINK: (support below)** Can you help me with this problem?  **SEE: (model below)** Multiplication and division skills will be important in solving today's problems. Watch the video lesson here. **DO:** Use what you have learnt today to solve the problems below.	**(Lesson 5 resources below)** **MAKING LINKS:** In Year 4, you studied how to convert units of time. Today's lesson continues this learning. **THINK: (support below)** Can you help me with this problem?  **Whose baby brother is older?** **SEE: (model below)** See the model below in the Day 5 resources. **DO:** Use what you have learnt today to solve the problems below.
Methods, tips, clues & checks	**Day 1 resources and answers (below)**	**Day 2 resources and answers (below)**	**Day 3 resources and answers (below)**	**Day 4 resources and answers (below)**	**Day 5 resources and answers (below)**

See below for resources to support you to THINK-SEE-DO

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DAY1 RESOURCES:

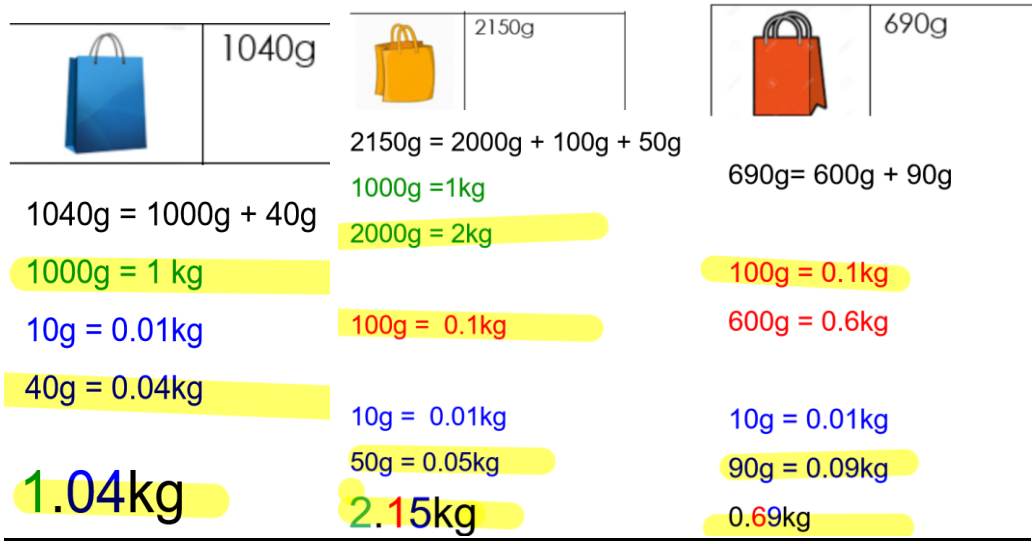
THINK:

	Mass in grams
	1040g
	2150g
	690g

Write the mass of each bag in kilograms.

SEE: Watch the video.

I can split up each number then use my facts from last week to help me work out each part in kg.



DO:

Write each mass in kilograms.

1. **1020g**
2. **2030g**
3. **1400g**
4. **1500g**
5. **2480g**
6. **1350g**

Top tips:

1000g = 1kg
100g = 0.1kg
10g = 0.01kg

Remember
Split up each number.
Take each part and convert it into **kg**:
1020g = 1000g + 20g
1020g = 1kg + 0.02kg

7. Order these from heaviest to lightest

1.3kg **1003g** **1.03kg** **1303g**

8. Order these from lightest to heaviest

3600g **3.06kg** **3006g** **3.66kg**

Remember
Convert the masses given into the **same unit** of measurement: all of them **kilograms** or all of them **grams**.

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DAY 2 RESOURCES:

THINK:

These children have been making cakes. Each cake needed the same amount of butter.

The children each started with the same amount of butter. Emma made 5 cakes and ended up with 1450g of butter left over. Joe made 10 cakes and ended up with 400g butter left over.

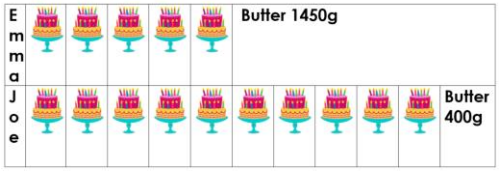
How much butter did they each start with?

Top tip – a bar model would be really useful here!

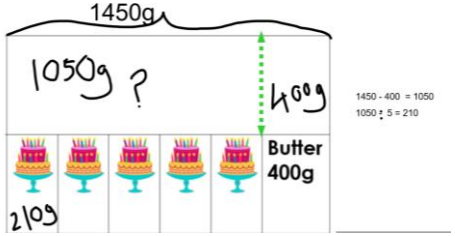
SEE:

Watch the video.

1 The bar model could look like this.



2 You can work out the butter in one cake.



3 Now the bar model looks like this.

4 Now you can check how much butter they each started with which is 2500g or 2.5kg.

Emma

210x5 = 1050

1050 + 1450 = 2500g or 2.5kg butter at the start

Joe

210 x 10 = 2100

2100+400 = 2500g or 2.5kg butter at the start

DO: **Top tip:** turn **kg** into **g** first before dividing.

1. This bag of rice weighs 3kg. The rice is shared equally into 6 jars. How many grams of rice is in each jar?
2. This bag of flour weighs 2kg. It is used to make 5 cakes and there is none left over. How many grams of flour goes in each cake?

Remember
1000g = 1kg
100g = 0.1kg
10g = 0.01kg

3. a) What is **2.8**kg in grams? b) How many 400g bags of pasta can be made out of **2.8**kg?
4. a) What is **1.48** kg in grams? b) If **1.48**kg of chocolates are shared equally into 4 boxes, how much would be in each box?
5. There are **2.1** kg of cherries. They are split equally into 7 boxes. What is the mass of the cherries in each box in grams?
6. **1.44** kg of pears are shared out equally into 6 bags. What is the mass of each bag in grams?

Top tip: think of multiplication facts

7 x 3 = 21
7 x 4 = 28
30 x 4 = 120
20 x 6 = 120

DAY 3 RESOURCES:

THINK:

Another way of measuring mass is using pounds which we write as lbs. Can you find out why we write it this way? Babies and toddlers are still often weighed using pounds. Convert these children's weights into pounds. 1kg ≈ 2.2lbs The ≈ sign means approximately.

	Weight in kg	Weight in lbs
Chloe	4kg	
Silas	8kg	
Zak	10kg	
Elodie	15kg	

SEE:

Watch the video here.

You can multiply to help you or use repeated addition if that's easier.

Chloe 4 kg

1kg ≈ 2.2lbs (x2)
2kg ≈ 4.4 lbs (x2)
4kg ≈ 8.8lbs

Or addition works too

2.2 + 2.2 = 4.4

4.4 + 4.4 = 8.8 lbs

Silas 8kg

4 kg ≈ 8.8 lbs (x2)
8kg ≈ 17.6 lbs

8.8 + 8.8 = 17.6 lbs

Zak 10kg

1 kg ≈ 2.2lbs (x10)
10kg ≈ 22 lbs

Elodie 15kg = 10kg + 5kg

10kg ≈ 22lbs

5kg ≈ 11lbs

22+11=33lbs

DO:

Convert these measurements into pounds (lbs)

1) 2kg
2) 3kg
3) 7kg
4) 12kg
5) 20kg
6) 25kg
7) 30kg
8) 45kg

Remember:

1kg ≈ 2.2lbs

2kg ≈ 4.4lbs

10kg ≈ 22lbs

Top tips:

Split the measurements into tens and ones:
12kg = 10kg + 2kg

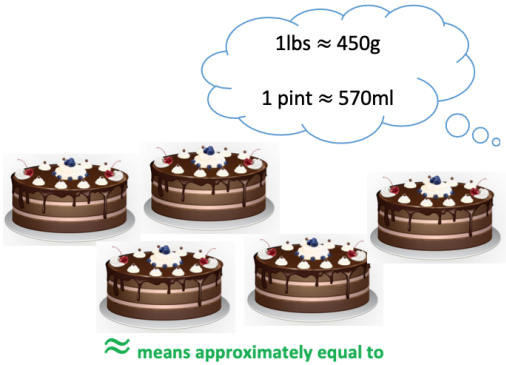
Use the 'Remember' box to work out other facts i.e. If I know 10kg ≈ 22lbs

÷2 ÷2

5kg ≈ ____

DAY 4 RESOURCES

THINK:



Recipe
(for five cakes)

- 2lbs of unsalted butter
- 1lbs of caster sugar
- 4 free range eggs
- $7\frac{1}{2}$ lbs self-raising flour
- 2 tablespoons of baking powder
- $1\frac{1}{5}$ lbs of cocoa powder
- $1\frac{1}{2}$ pints of milk

Can you convert this recipe from pounds (lbs) to grams (g)

and from pints to millilitres (ml)?

DO:

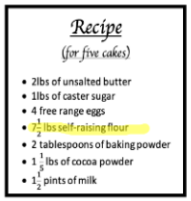
Using the conversion rate **1lbs ≈ 450g**, convert the following measurements:

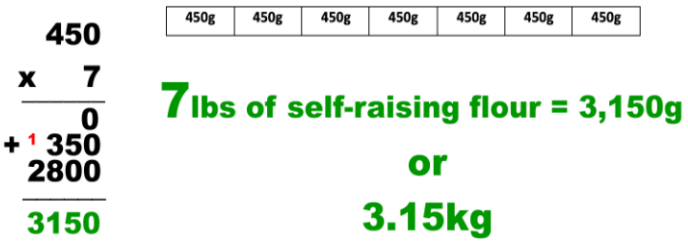
1. 3lbs = _____ g
2. 5lbs = _____ g
3. 10lbs = _____ g
4. 15lbs = _____ g
5. $2\frac{1}{3}$lbs = _____ g
6. $1\frac{1}{9}$ lbs = _____ g

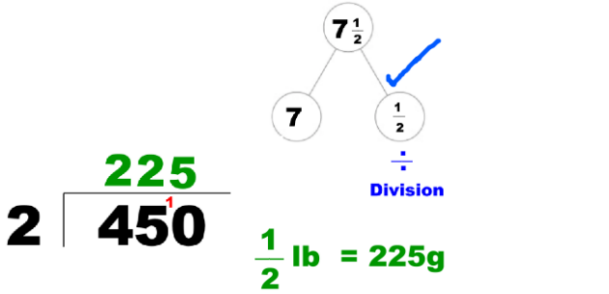
Using the conversion rate **1 pint ≈ 570ml**, convert the following measurements:

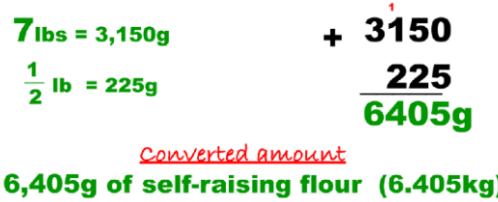
7. 2 pints = _____ ml
8. 3 pints = _____ ml
9. 5 pints = _____ ml
10. 12 pints = _____ ml
11. $4\frac{1}{2}$ pints = _____ ml

SEE: Watch the video lesson here.









To convert $7\frac{1}{2}$ lbs to grams, it is helpful to partition $7\frac{1}{2}$ into 7 and $\frac{1}{2}$. We can then convert each of these separately.

We know that 1lb≈450g, so to convert 7lb, we can multiply 450 by 7.

We then need to convert $\frac{1}{2}$lb to grams. We know that 1lb≈450g, so we can divide 450 by 2 to do this.

Now that we know what 7lbs and $\frac{1}{2}$lb is in grams, we can add them together to find out how much $7\frac{1}{2}$lb is in grams.

Top Tips

1lbs ≈ 450g | **1/3 lbs ≈ 150g** | **1 pint ≈ 570ml**

½ lbs ≈ 225g | **1/9 lbs ≈ 50g** | **½ pint ≈ 285ml**

DAY 5 RESOURCES:

THINK:

Whose baby brother is older?

SEE:

Key Fact

1 year = 12 months

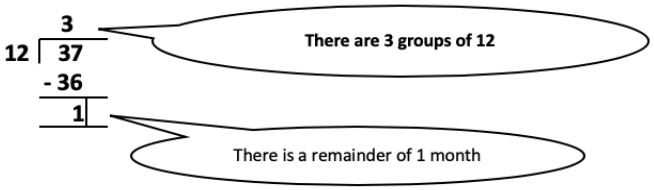
3 years = 3 x 12 months
= 36 months
3 years and 7 months = 36 months + 7 months
= 43 months

's baby brother is older by 6 months

METHOD 1

METHOD 2

We can divide the number of months by 12.



DO:

1. 0.5 years = _____ months
2. 2 years = _____ months
3. 3 years 4 months = _____ months
4. 5 years 11 months = _____ months
5. 6 years 7 months = _____ months
6. 38 months = _____years _____ months
7. 100 months = _____years _____ months

Remember:

1 year = 12 months

½ year = 0.5 years = 6 months

1/3 year = 4 months

1/6 year = 2 months

8. The Table below show the ages of puppies at a dog show.
Complete the table.

Name of puppy	In months	In years and months	In years
Jack	13 months		
Sam		1 year and 3 months	
Rover			$2\frac{1}{6}$ years
Jake	21 months		
Ollie			$2\frac{1}{2}$ years

9. When Tom was five years old, his brother was 20 months old. How much older is Tom than his brother? Give your answer in years and months.

ANSWERS:

Day 1

1. 1.02kg
2. 2.03kg
3. 1.4kg
4. 1.5kg
5. 2.48kg
6. 1.35kg

1303g, 1.3kg , 1.03kg, 1003g

3006g, 3.06kg, 3600g, 3.66kg

Day 2

1. 500g
2. 400g
3. 2800g and 7 bags
4. 1480g and 370g of chocolates
5. 300g
6. 240g

Day 3

1. 4.4 lbs
2. 6.6lbs
3. 15.4lbs
4. 26.4 lbs
5. 44lbs
6. 55lbs
7. 66lbs
8. 99lbs

Day 4

1. 1350g or 1.35kg
2. 2,250g or 2.25kg
3. 4,500g or 4.5kg
4. 6,750g or 6.75kg
5. 1,050g or 1.05kg
6. 500g or 0.5kg
7. 1,140ml or 1.14L
8. 1,710ml or 1.17L
9. 2,850ml or 2.85L
10. 6,840ml or 6.84L
11. 2,565ml or 2.565L

Day 5

1. 6 months
2. 24 months
3. 40 months
4. 71 months
5. 79 months
6. 3 years and 2 months
7. 8 years and 4 months
8.

Name of puppy	In months	In years and months	In years
Jack	13 months	1 year 1 month	$1\frac{1}{12}$ years
Sam	15 months	1 year and 3 months	$1\frac{1}{4}$ years
Rover	26 months	2 years 2 months	$2\frac{1}{6}$ years
Jake	21 months	1 year 9 months	$1\frac{3}{4}$ years
Ollie	30 months	2 years 6 months	$2\frac{1}{2}$ years

9. 40 months = $3\frac{1}{2}$ years