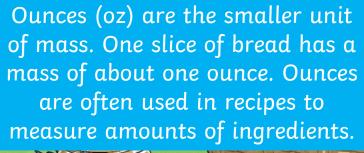


## Imperial Units of Mass

The imperial system of measurement uses ounces and pounds to measure mass.







Pounds (lb) are the larger unit of mass – a football has a mass of about one pound. There are 16 ounces in one pound. We might

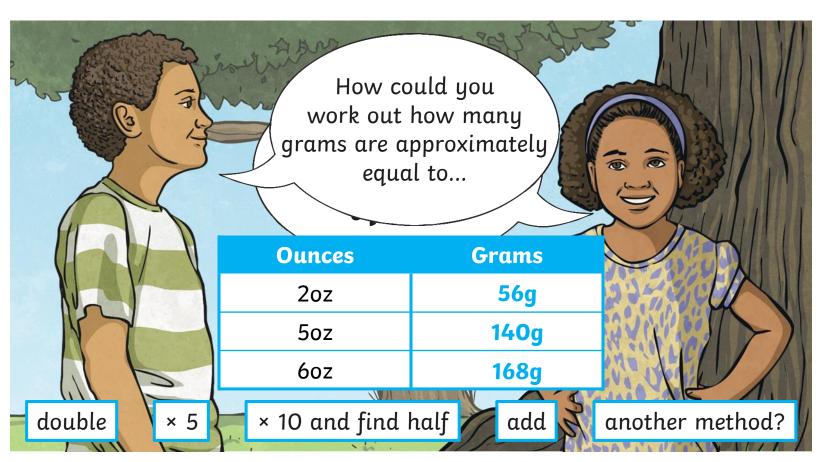
Can you think of anything else that we use ounces or pounds to measure?

e mass nounts

## Ounces and Grams



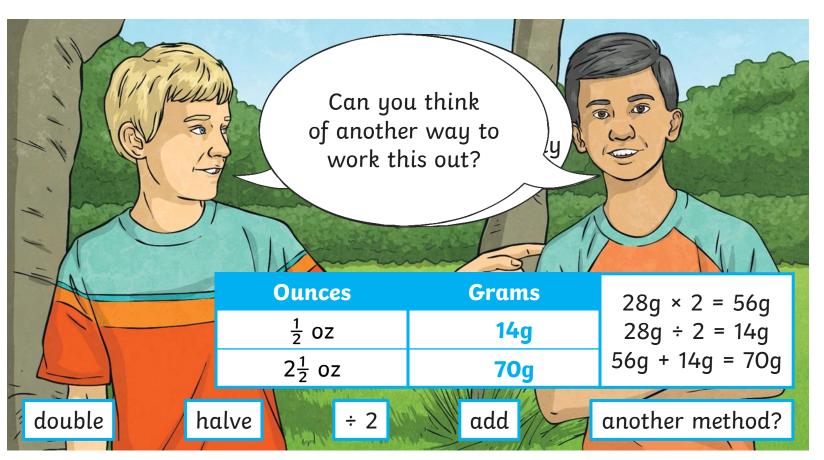
1oz ≈ 28g



## Ounces and Grams



1oz ≈ 28g



twinkl.com

## Recipes

Lucy's grandma has given her an old book of cake recipes. The ingredients have been written in imperial measurements.



Lucy only has a set of scales that measure in metric units!

She wants to convert her grandma's recipes from ounces to grams so that she can make them herself.



# Recipes



1oz ≈ 28g

The first page in Lucy's grandma's book has a list of ingredients for making shortbread.

Ingredients (02) makes 12

80z butter 60z sugar 100z plain flour Shortbread
Ingredients (g)
makes 12

224g butter

168g sugar

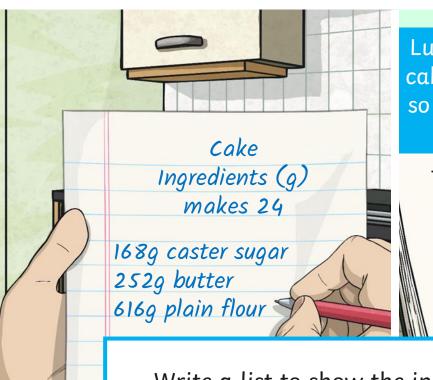
280g plain flour

Convert the measurements given in ounces into grams:

## Recipes



1oz ≈ 28g



Lucy found a recipe for chocolate cake. She wants to make **24** cakes so she can bring them in to share with her class.

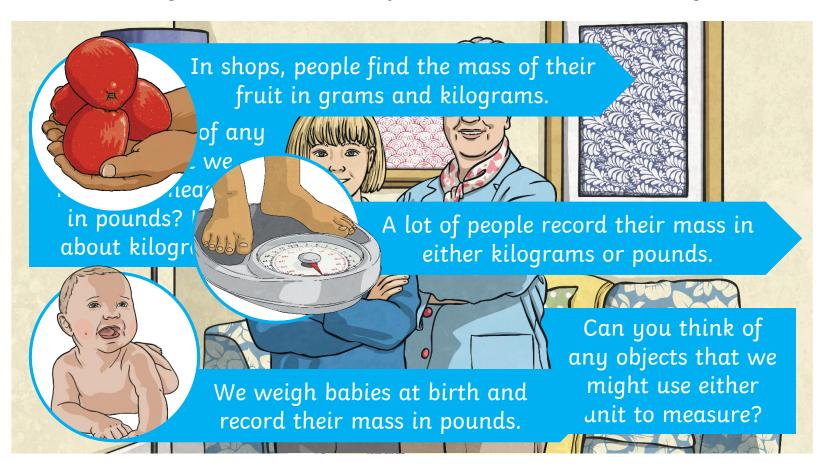
Ingredients (02) makes 12

30z caster sugar  $4\frac{1}{2}$ 0z butter
110z plain flour

Write a list to show the ingredients in grams.

#### Pounds, Grams and Kilograms

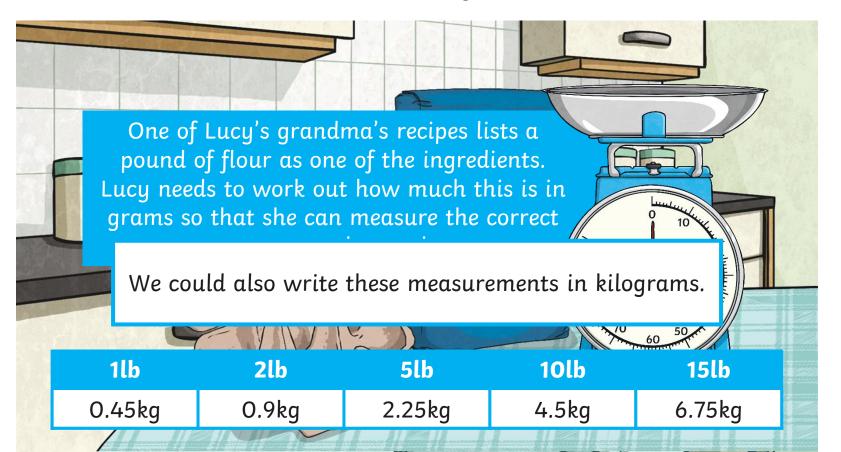
We usually measure certain objects in either pounds or kilograms.



## Pounds, Grams and Kilograms



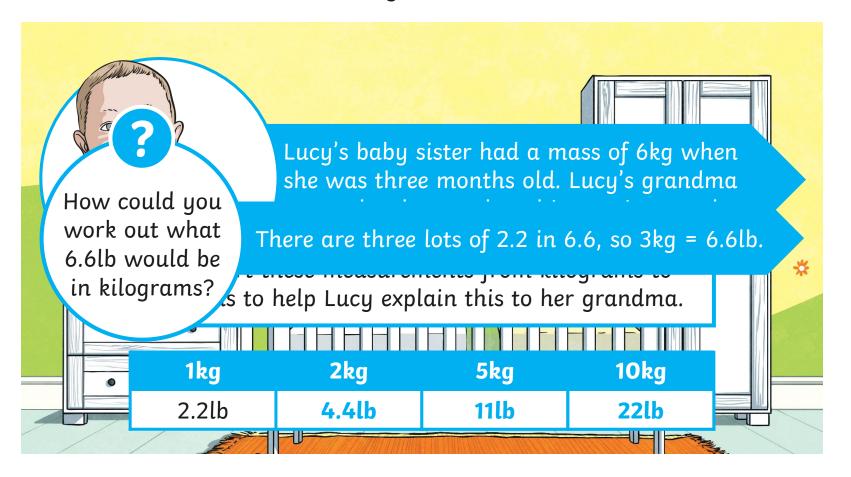
1lb ≈ 450g



## Pounds, Grams and Kilograms



1kg ≈ 2.2lb



#### Mass Problems



1oz ≈ 28 grams

1lb ≈ 450g

1kg ≈ 2.2lb



1oz ≈ 28g × 20 ≈ 560g

#### Mother:

2kg = 2000g 2000g - 560g = 1440g

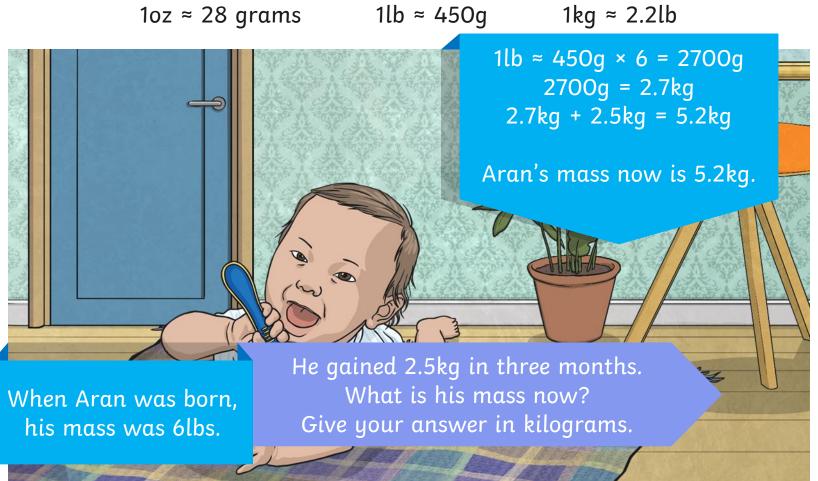
The mother is 1440g heavier than her kitten.

A kitten has a mass of 20oz.

Its mother has a mass of 2kg. How much heavier is the mother than her kitten? Give your answer in grams.

#### Mass Problems





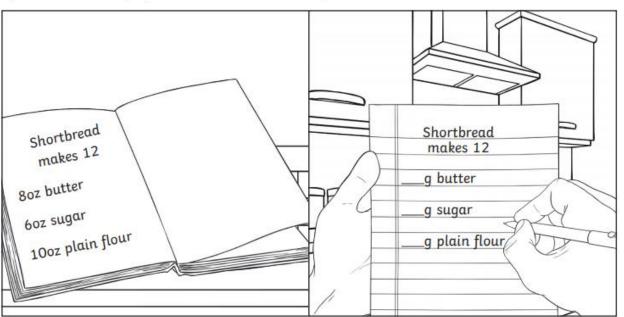
# Units of Mass



Can you answer these questions

$$10z \approx 30g$$
  $1lb \approx 450g$   $1kg \approx 2.2lb$ 

Here is a recipe for biscuits. Convert the imperial measurements into metric units.



2) Fill in this chart to convert from pounds to grams.

1lb	2lb	5lb	10lb
450g			

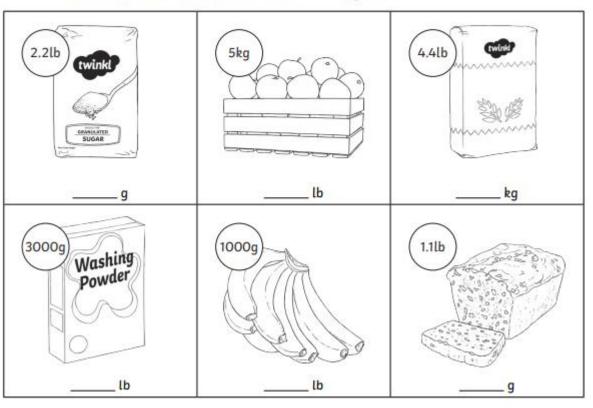


1oz = 30g

1lb = 450g

1kg = 2.2lb

3) The masses of these items of food have been recorded in either metric or imperial units of measurement. Convert each measurement into the given unit.



Make sure you look at which measurement you are converting to.

4) Sara adopted two kittens called Kiki and Ken. Kiki has a mass of 10oz; Ken's mass is 250g. Which kitten is heavier? Show your working out.



# Comparing Measurements

Use <, > or  $\approx$  to compare each set of measurements. For each set, decide which measurement it would be more sensible to convert.

