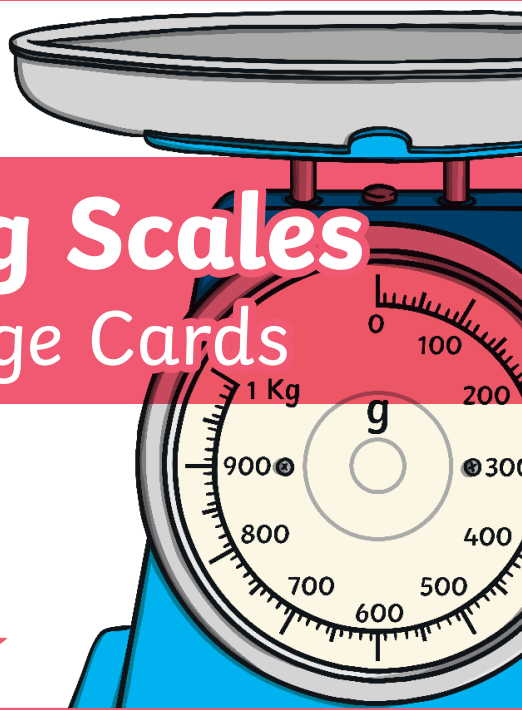


Reading Scales Challenge Cards



Reading Scales

1

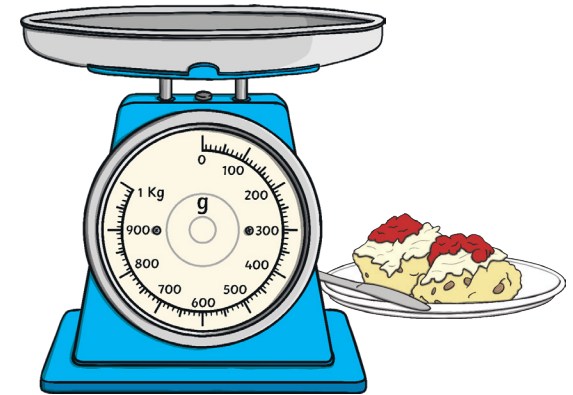
To make scones buns I need 275g sugar, 525g flour and 325g sultanas.

Mark these quantities on the scale below.

sugar

flour

sultanas



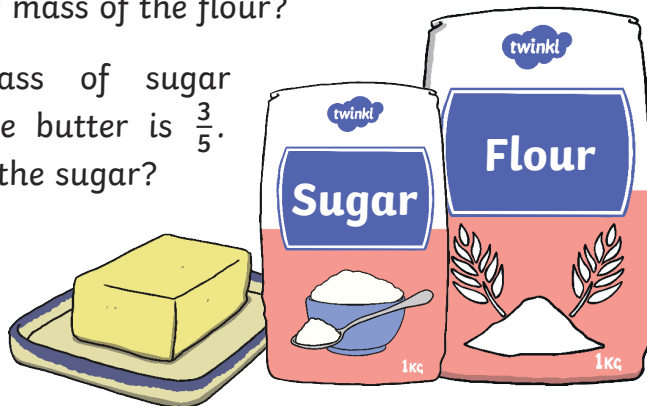
Reading Scales

2

I need to mix some cupcakes, but all of the ingredients are on the scales at the same time. The scale reads 760g.

I know the mass of the flour is as much as the sugar and butter together. What is the mass of the flour?

Challenge: The mass of sugar is $\frac{2}{5}$ the mass of the butter is $\frac{3}{5}$.
What is the mass of the sugar?



Reading Scales

3

I need to convert some quantities in the recipes I am going to try. Match the equivalent quantities below with a line.

470g

3.25l

500cm

2.65kg

3250ml

5.0m

0.470kg

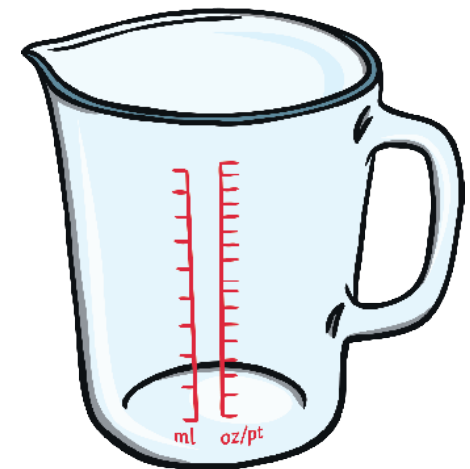
2650g

0.275ml

3.25kg

5000mm

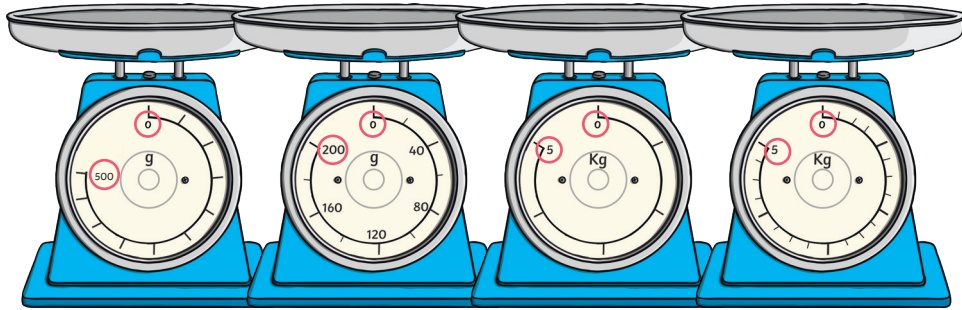
0.0265kg



Reading Scales

4

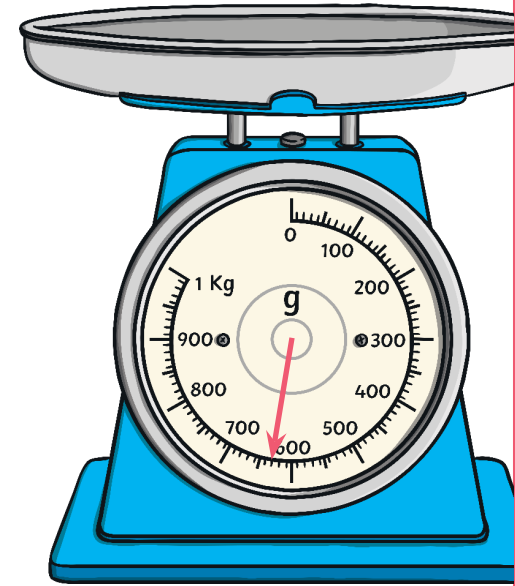
From the scales shown, state what each labelled interval represents.



Reading Scales

5

What is the mass of sugar on these scales? If I add another 90g of sugar, draw the pointer at the correct place on the scales.

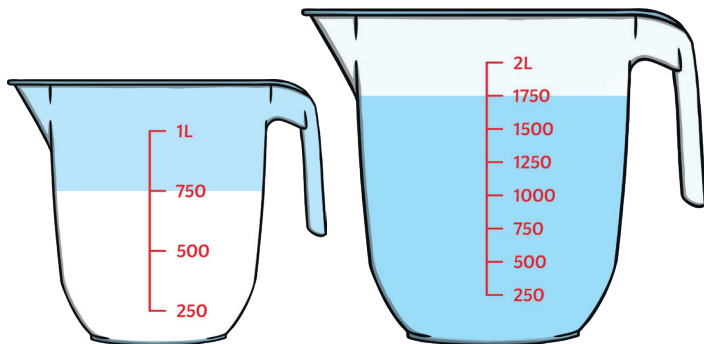


Reading Scales

6

In one jug I have water for school lunch. In the other I have milk. How much of each drink have I got? How much have I got altogether?

Challenge: Record the volume of water and milk in ml and l.

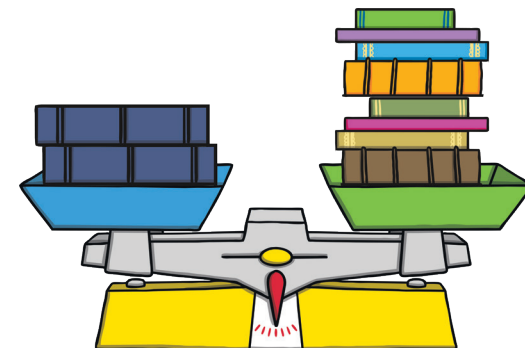


Reading Scales

7

On this balance scale, is one exercise book heavier than one dictionary?

What is the mass of one exercise book compared to one dictionary? Record your answer as a fraction?



Reading Scales

8

The total mass of a bowl and ingredients for cupcakes is 246g. There is enough mixture to fill 7 equal cupcake cases. When 3 cupcake cases are filled, the mass of the bowl and ingredients is 225g.

What is the mass of the bowl?



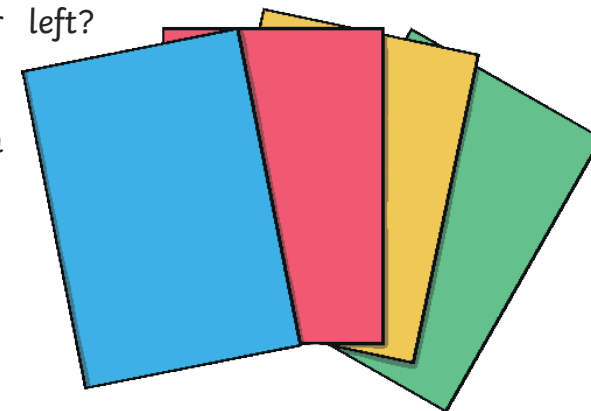
Reading Scales

9

I have to put backing paper on four display boards in school. If I cut a 3m roll of paper into 65cm lengths will I have enough for all 4 boards?

Do I have any paper left?
If so how much?

Record your answer in
m, cm and mm.



Reading Scales

10

The school secretary is ordering supplies for KS2 classes. Fill in the missing items to scale the stock up or down.

Quantity	Pencils	Rubbers	Rulers	Books
5	50p			
10		20p		
50			£7.50	
75				£13.50

Answers

- Sugar - **275g**
Flour - **525g**
Sultanas - **325g**
- Mass of flour: **760g** \div **2** = **380g**.
Challenge: **Sugar** = $\frac{2}{5}$ of remaining mass so **380g** \div **5** \times **2** = **152g**
- 470g - **0.470kg**
3.25l - **3250ml**
500cm - **5.0m** and **5000mm**
2.65kg - **2650g**
- Scale 1: **50g intervals**
Scale 2: **20g intervals**
Scale 3: **1kg intervals**
Scale 4: **250g intervals**
- 630g** marked on scale. With an extra **90g** it would read **720g**.
- Water: **1750ml** or **1.75l**. Milk: **750ml** or **0.75l**.
Total volume: **2500ml** or **2.5l**.
- No, one exercise book is not heavier than one dictionary.

Each exercise book is equal to $\frac{1}{4}$ the mass of each dictionary.

- $246g - 225g = 21g$
 $21g \div 3 = 7g$ for each spoonful of cupcake mix
 $7g \times 7 = 49g$ of cupcake mix
 $246g - 49g = 197g$. **The bowl weighs 197g.**
- $65cm \times 4 = 260cm$. **Yes I have enough paper.**
There is 0.4m or, 40cm or, 400mm paper left.
-

Quantity	Pencils	Rubbers	Rulers	Books
5	50p	10p	75p	90p
10	£1.00	20p	£1.50	£1.80
50	£5.00	£1.00	£7.50	£9.00
75	£7.50	£1.50	£11.25	£13.50