At Sara's Snack Bar

Use all four operations to solve problems involving mass and scaling

1 Work out the total mass of the snacks in each question. Write your answer in grams and in kilograms using decimals.

  a   1 baked potato and 1 apple

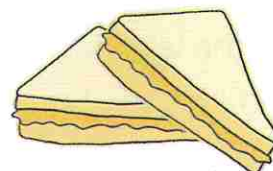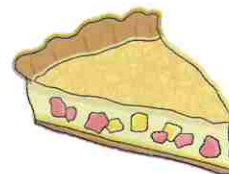 b   1 sandwich and 1 banana

  c   1 cup of soup and 1 slice of quiche

2 Sara had an order for 10 cups of soup and 10 slices of quiche. What was the total mass of the order in kilograms?
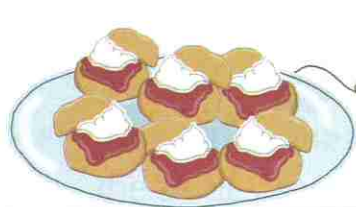
Sara's Snack Bar	
Food mass per portion	
baked potato	250 g
cup of soup	140 g
sandwich	175 g
slice of quiche	90 g
banana	125 g
apple	150 g

1 Look at the Food mass per portion in the table in Challenge 1.
Copy and complete the table below for the number of sales at Sara's Snack Bar.

Food item	Number of sales		
	1 sale	10 sales	50 sales
baked potato	0·25 kg	2·5 kg	
slice of quiche	0·09 kg		
sandwich	0·175 kg		
cup of soup			
banana			
apple			

2 These bakery goods are displayed in Sara's shop window.

540 g

350 g

320 g

For each plate of bakery goods, find the mass of:

a   1 item in grams   b   10 items in kilograms   c   100 items in kilograms

3 Mrs Hassan bought 3 scones, 3 doughnuts and 3 cupcakes.
Find the total mass of her purchases in kilograms.

4 Saturday is Sara's busiest day. She made 6·75 kg of scones.
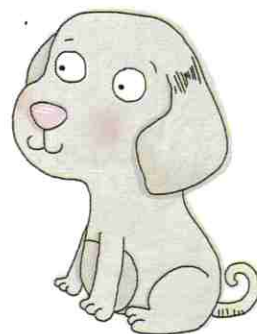How many scones did she make?

5 Sara's cat and its kitten together have a mass of 2·8 kg.
The cat's mass is 1800 g more than the mass of the kitten.

a   What is the mass of the cat?

b   What is the mass of the kitten?

1 Sara's sons, Harry and George, take turns to stand
on a weighing machine with Bruce their dog.

- Harry and George have a mass of 83 kg.
- Harry and Bruce have a mass of 64·5 kg.
- George and Bruce have a mass of 59·5 kg.

Find the mass in kilograms of:

a   Harry   b   George   c   Bruce

2 What is the total mass of Harry, George and Bruce?