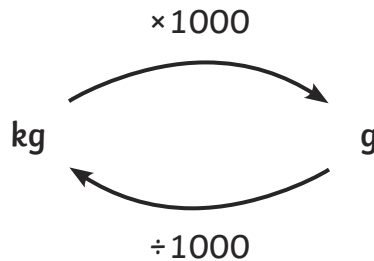# Out Shopping

I can read, write and convert between standard units of mass.

×1000

kg ⟶ g

÷1000

1. Convert these kilogram measurements to grams by multiplying by 1000.

8kg	2kg	6kg	8.422kg	9.263kg	2.835kg
× 1000	× 1000	× 1000	× 1000	× 1000	× 1000
8000g			8422g		

2. Theo has been converting from grams to kilograms. If he is correct, mark the conversion with a tick. If he is wrong, mark it with a cross.

2500g	8100g	9500g	8654g	9342g	1899g
2.5kg	8.1kg	95kg	8.654kg	0.9342kg	1.899kg

3. Here are the mass of some items in a shop. Order this set of mixed measurements from smallest to greatest mass.

2.754kg   0.271kg   3275g   2.573kg   725g

4. Who is carrying the heavier bag? Show how you worked out the answer.

Tim's bag

1.655kg potatoes

2 tins each
weighing 500g

A carton of juice
weighing 1100g

Harvinder's bag

2500g fruit

1 bottle washing up
liquid 250g

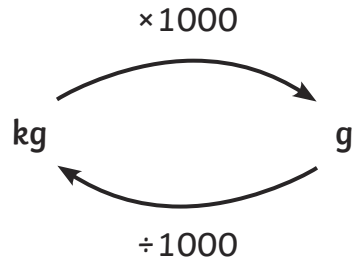A box of washing
powder weighing 1.5kg

5. Write a word problem, with a shopping theme, involving two measurements: one written in grams, the other in kilograms. Write an answer for the problem.

Out Shopping

I can read, write and convert between standard units of mass.

×1000

kg ⟶ g

÷1000

1. Match the measurements on the left with the conversion on the right. There is one pair which does not match.

6700g	4.489kg
2.555kg	1.05kg
1.07kg	6.7kg
2350g	1.5kg
23.5kg	1070g
1550g	23 500g
4489g	2.35kg
1050g	2555g

Write a conversion for both of the unmatched measurements.

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Maths | Year 6 | Measurement | Converting Metric Measurements | Lesson 2 of 3: Out Shopping

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2. a) Which of these measurements comes between 955g and 1.1kg?

955g		1.1kg

1200g
0.91kg
1.05kg

b) Which of these measurements comes between 6.75kg and 1.33kg?

6.75kg		1.33kg

1.4kg
875g
6800g

3. This is Lucinda's shopping. Her bag can only carry 5.5kg. Can Lucinda put all of her shopping in her bag? Show how you worked out the answer.

Apples 1.25kg

2 bottles washing up liquid each 0.45kg

Box of cat food 2750g

5 cans of beans, each 245g
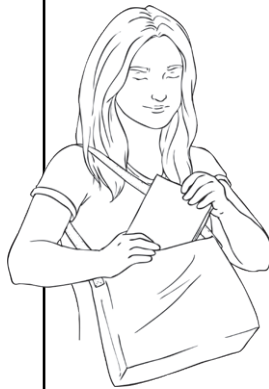
How much greater or less than 5.5kg is the bag's total mass? Write your answer in kilograms, using decimal notation.
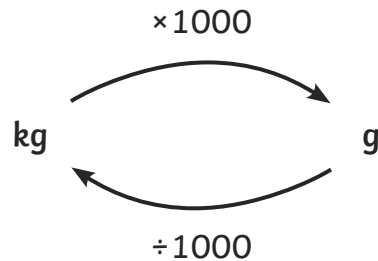
_____

_____

_____

_____

4. Write a word problem, with a shopping theme, involving two measurements: one written in grams, the other in kilograms. The problem needs to include subtraction. Write the answer to the problem.

Out Shopping

×1000

kg → g

÷1000

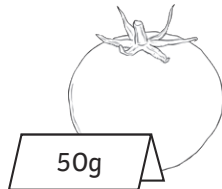1. Fill in the missing measurements, converting between kilograms and grams.

Kilograms	Grams
1.54kg	
	2400g
	24g
0.05kg	
	10 850g
1.349kg	
2.009kg	
	772g
7.3kg	
	3560g
	2g
1.09kg	

2. Choose one of the masses to fit between each pair of measurements.

POTATOES

7500g

19 000g

5.91kg

TWINKL PASTA

850g

50g

1.5kg

6.055kg
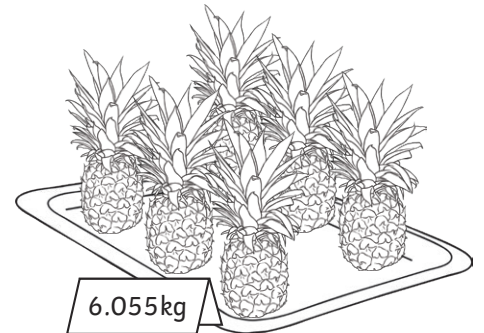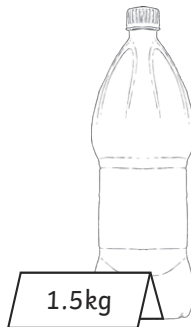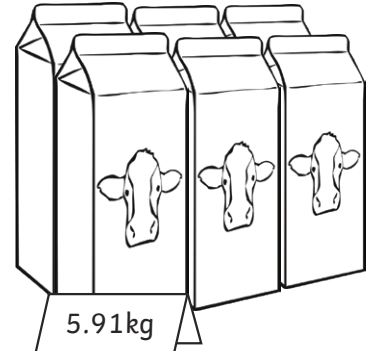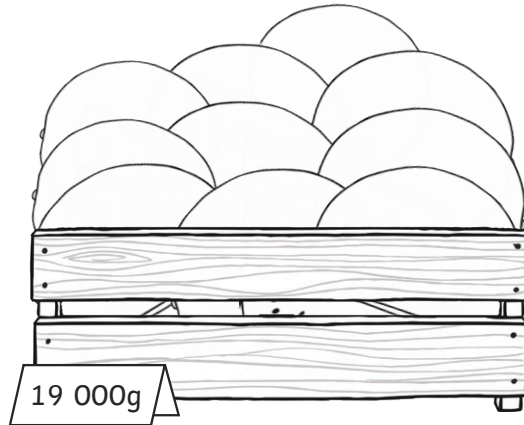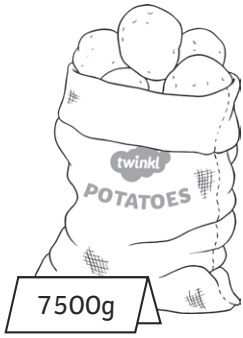
10.65kg		20 000g
50g		1kg
6.1kg		6kg
1000g		2000g
5900g		6kg
7.33kg		8500g
0.1kg		20g

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Maths I Year 6 I Measurement I Converting Metric Measurements I Lesson 2 of 3: Out Shopping

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3. This is Muhammed's shopping. His bag can only carry 5.5kg. How much more can he put in the bag? Write your answer in grams and in kilograms, using decimals. Show how you worked out the answer.

Oranges 957g

2 bottles, each 0.155kg

3 cans dog food, each 585g

Can of vegetables, 0.6kg

4. Write a word problem, with a shopping theme, involving two measurements: one written in grams, the other in kilograms. The problem needs to include a multiplication calculation. Write the answer to the problem.

Out Shopping **Answers**

1. Convert these kilogram measurements to grams by multiplying by 1000.

8kg	2kg	6kg	8.422kg	9.263kg	2.835kg
× 1000	× 1000	× 1000	× 1000	× 1000	× 1000
8000g	*2000g*	*6000g*	8422g	*9263g*	*2835g*

2. Theo has been converting from grams to kilograms. If he is correct, mark the conversion with a tick. If he is wrong, mark it with a cross.

2500g	8100g	9500g	8654g	9342g	1899g
2.5kg	8.1kg	95kg	8.654kg	0.9342kg	1.899kg
✓	✓	✗	✓	✗	✓

3. Here are the mass of some items in a shop. Order this set of mixed measurements from smallest to greatest mass.

   0.271kg   *725g*   *2.573kg*   *2.754kg*   *3275g*

4. Who is carrying the heavier bag? Show how you worked out the answer.
   Tim's bag has a mass of 3755g or 3.755kg.
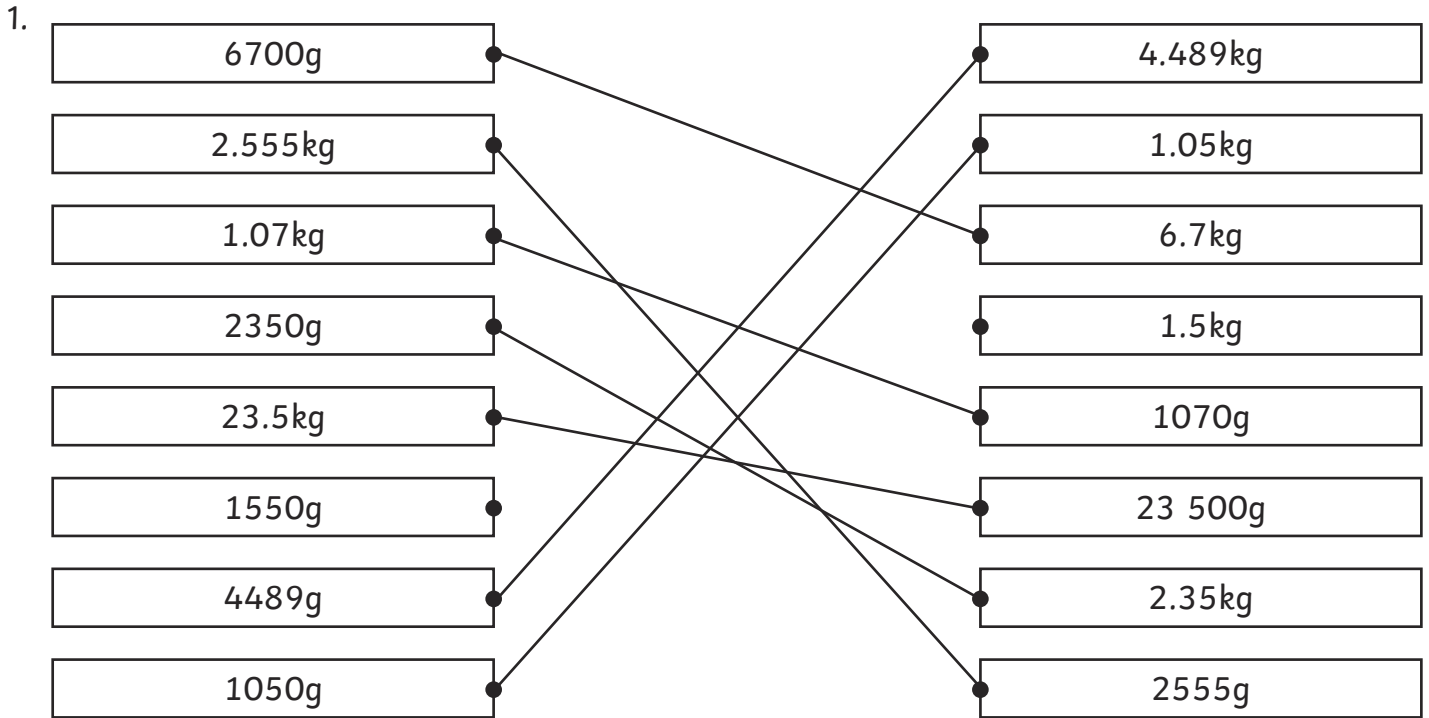   *Harvinder's bag has a mass of 4250g or 4.25kg.*
   Harvinder's bag is the heavier.

5. Write a word problem, with a shopping theme, involving two measurements: one written in grams, the other in kilograms. Write an answer for the problem.
   Multiple possible answers. Ensure the answer matches the problem.

Out Shopping **Answers**

1.

6700g	4.489kg
2.555kg	1.05kg
1.07kg	6.7kg
2350g	1.5kg
23.5kg	1070g
1550g	23 500g
4489g	2.35kg
1050g	2555g

Write a conversion for both of the unmatched measurements.

1550g = 1.55kg

1.5kg = 1500g

2. a) Which of these measurements comes between 955g and 1.1kg?

955g	1.05kg	1.1kg

b) Which of these measurements comes between 6.75kg and 1.33kg?

6.75kg	1.4kg	1.33kg

3. This is Lucinda's shopping. Her bag can only carry 5.5kg. Can Lucinda put all of her shopping in her bag? Show how you worked out the answer.
No, Lucinda's shopping has a mass of 6.125kg or 6125g. This is 0.625kg greater than 5.5kg.

4. Write a word problem, with a shopping theme, involving two measurements: one written in grams, the other in kilograms. The problem needs to include subtraction. Write the answer to the problem.
Multiple possible answers. Ensure the answer matches the problem.

Out Shopping **Answers**

1. Fill in the missing measurements, converting between kilograms and grams.

Kilograms	Grams
1.54kg	1540g
2.4kg	2400g
0.024kg	24g
0.05kg	50g
10.85kg	10 850g
1.349kg	1349g
2.009kg	2009g
0.722kg	772g
7.3kg	7300g
3.56kg	3560g
0.002kg	2g
1.09kg	1090g

2. Choose one of the masses to fit between each pair of measurements.

10.65kg	19 000g	20 000g
50g	850g	1kg
6.1kg	6.055kg	6kg
1000g	1.5kg	2000g
5900g	5.91kg	6kg
7.33kg	7500g	8500g
0.1kg	50g	20g

3. This is Muhammed's shopping. His bag can only carry 5.5kg. How much more can he put in the bag? Write your answer in grams and in kilograms, using decimals. Show how you worked out the answer.
   Another 1.878kg or 1878g can be put into the bag.

4. Write a word problem, with a shopping theme, involving two measurements: one written in grams, the other in kilograms. The problem needs to include a multiplication calculation. Write the answer to the problem.
   Multiple possible answers. Ensure the answer matches the problem.