A mile of baked beans
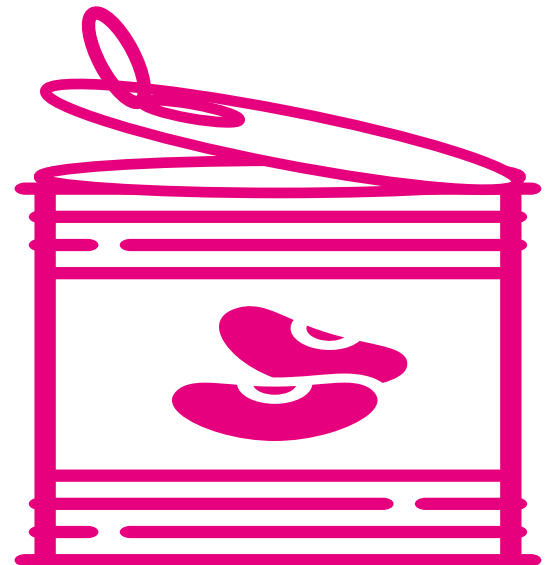
A small can of baked beans is about 10 cm high.

If many cans were placed end to end, how many cans would be needed to cover a distance of 1 mile?

Can you find anything else in your home which would be fun to make a mile long 'snake' from? How many of these items would it take to make a mile?

Helpful hints: 1 can = 10 cm so 10 cans = 1 m and so on... 5 miles are equivalent to 8 km so 1 mile = 1.6 km and 1 km = 0.625 miles.

Family comments:

Child comments:

Curriculum Link

Convert between miles and kilometres.

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How much?

Family Maths Toolkit

If we travel to some other countries, we need to change our pounds for the currency in that country – this is called 'exchange'. The rates of exchange vary but this table shows the exchange rates on one day.

£

Exchange rates	
UK £1 (UK pounds)	USA $1.46 (United States Dollars)
UK £1	Euros €1.32

The cost of a burger in London is £4.57. How much would the same burger cost in the USA in dollars?

The cost of a pizza in Cardiff is £3.50. What would the cost of this be in France in euros?

A punnet of strawberries cost £2.60 in Edinburgh. How much would you pay for the strawberries in Spain using euros?

A Euro Disney day ticket costs 79 euros if you buy it at the park. How many pounds would you need to save to pay for 5 tickets?

Can you think of 3 other things you might want to buy in the UK and work out how much money you need to exchange to be able to buy them in the USA and in France?

Family comments:

Child comments:

Curriculum Link

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Multiply and divide multi digit numbers, including decimals in the context of money to solve problems; rounding number to a degree of accuracy.

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Baked potatoes preparation
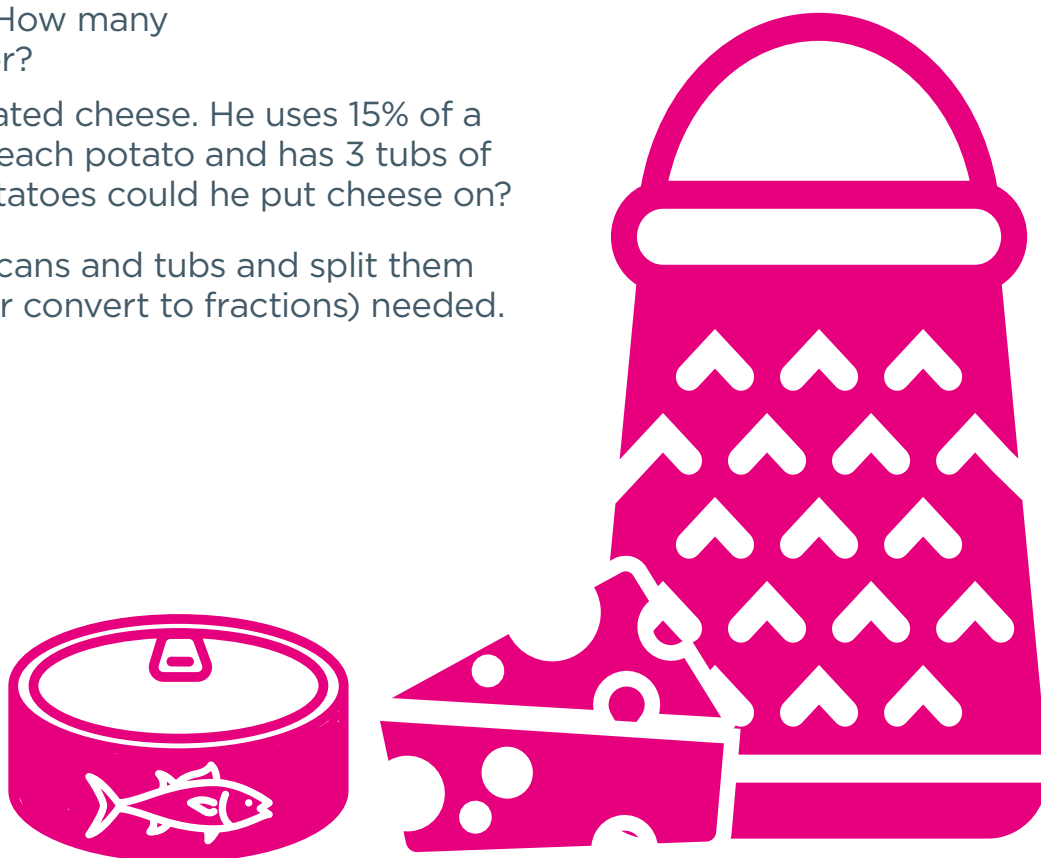
For his family's lunch, Kasan uses 60% of a can of tuna on each baked potato.

He has 4 cans of tuna. How many potatoes could he cover?

He also uses tubs of grated cheese. He uses 15% of a large tub of cheese on each potato and has 3 tubs of cheese – how many potatoes could he put cheese on?

Helpful hint: Draw the cans and tubs and split them into the percentages (or convert to fractions) needed.
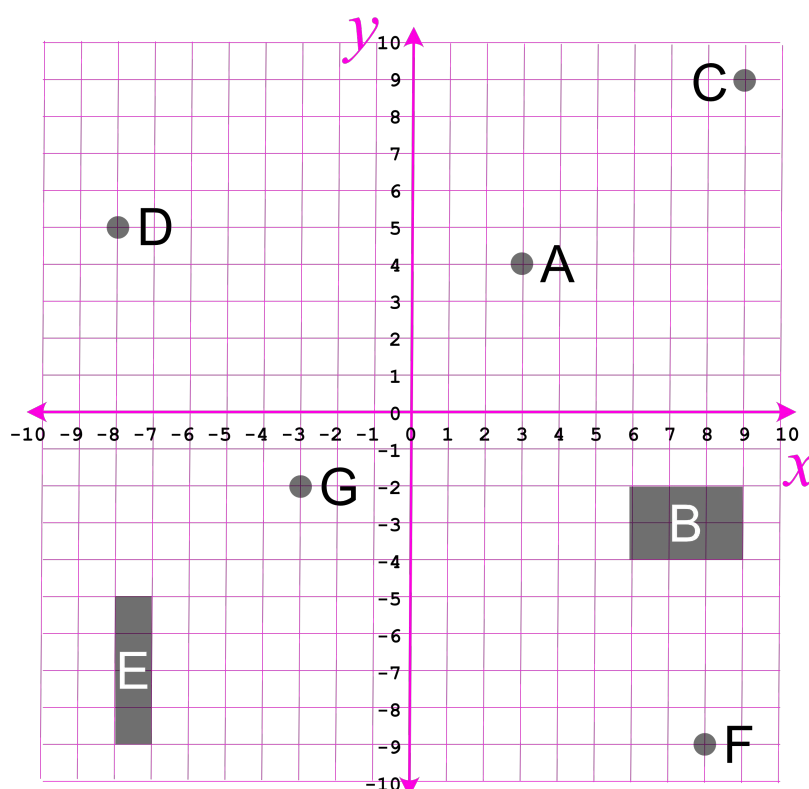
Family comments:

Child comments:

Curriculum Link

Solve problems involving percentages and the use of percentages for comparison.

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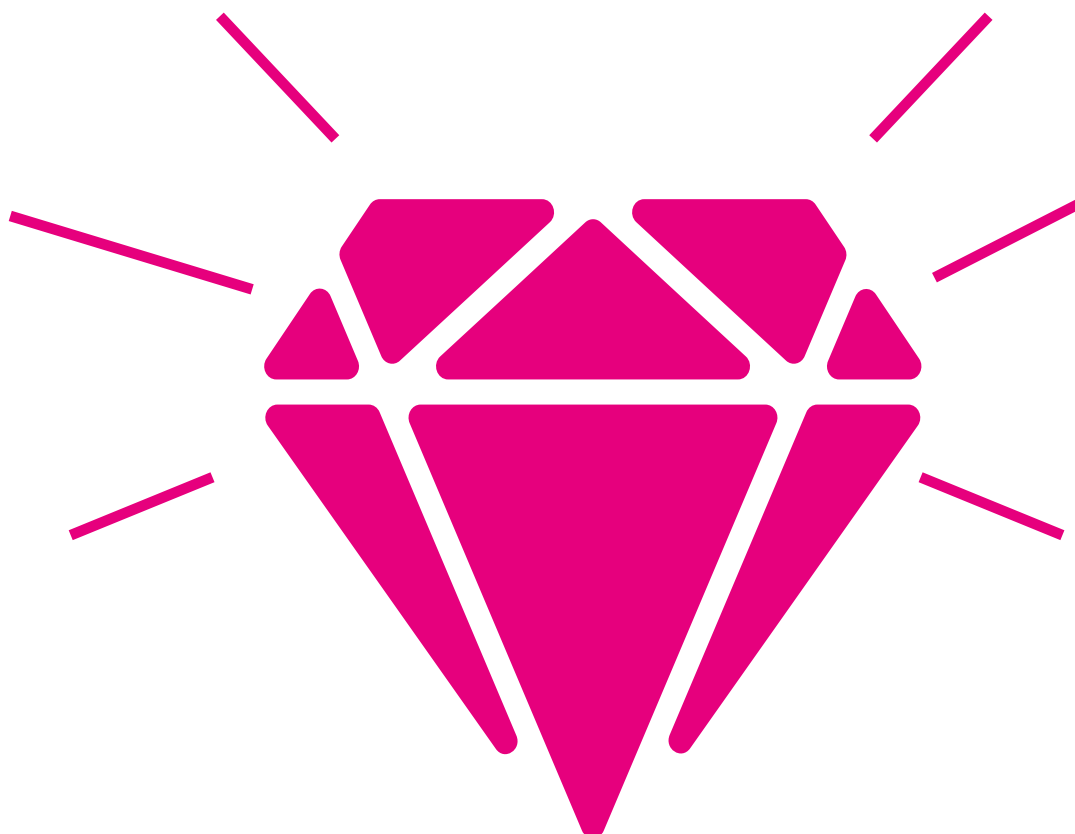National Numeracy
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Treasure map

Polly Pirate and Peter Pirate have found a treasure map but some of the co-ordinates have been muddled up. Can you help them by matching the co-ordinates to the pieces of treasure?

A	A bag of gold coins	(3, 4)
B	chest of bottles of rum	(6, -2), (9, -2), (9, -4), (6, -4).
C	a dagger	(8, -9)
D	diamonds	(-8, -5), (-7, -5), (-7, -9), (-8, -9).
E	a sword	(-3, -2)
F	a skull	(-8, 5)
G	a map to more treasure!	(9, 9)

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Now ask each of your family to imagine a piece of treasure they would be excited to find – they must give you the co-ordinates to put it on the map and add it to the list.

Family comments:

Child comments:

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