

A Christmas Maths Delivery

Amazing Fact

British people spend more on Christmas gifts than anyone else in Europe. In 2014, the average spend per person on Christmas presents was £100.00-£350.00 more than in the next highest country.

Challenge 1

Santa Claus has 3 large sacks of presents to deliver.

There are no more than 5 presents in each sack.

In the purple and blue sacks there are 6 presents in total.

In the purple and orange sacks there are 7 presents in total.

In the blue and orange sacks there are 5 presents in total.

Use the box below for your calculations and sketches to help you answer the questions.

How many presents are there in each sack?

Blue:

Purple:

Orange:

How many presents are there in total?

A Christmas Maths Delivery

Challenge 2

Santa Claus has 3 large sacks of presents to deliver.

There are no more than 8 presents in each sack.

In the purple and blue sacks there are 12 presents in total.

In the purple and orange sacks there are 10 presents in total.

In the blue and orange sacks there are 8 presents in total.

Use the box below for your calculations and sketches to help you answer the questions.

How many presents are there in each sack?

Blue:

Purple:

Orange:

How many presents are there in total?



A Christmas Maths Delivery

Challenge 3

Could you create your own Christmas maths delivery problem in the same style as the two challenges you have completed?

You could also try to find out:

- what percentage of the population in your country celebrate Christmas;
- how you could make Christmas cheaper;
- what percentage of people go into debt to pay for Christmas.

A Christmas Maths Delivery **Answers**

1. Challenge 1:

Blue – 2 presents Purple – 4 presents Orange – 3 presents
9 presents altogether

2. Challenge 2:

Blue – 5 presents purple – 7 presents orange – 3 presents
15 presents altogether