Numbers lying between two given numbers
Written questions

1. I spent around about £500 on chocolate last month, give or take £15.
a) How much might I have spent?
b) What is the least I could've spent on chocolate?
c) What is the most I could've spent on chocolate?

2. The temperature yesterday was around 25ºC, give or take 7º.
a) What might the temperature have been?
b) What is the hottest it could've been?
c) What is the coldest it could've been?

3. A journey takes about 2 hours, give or take 10 minutes.
a) Give one estimate of how long the journey could be?
b) What is the least amount of time the journey could take?
c) What is the most amount of time the journey could take?

4. The height of the mountain was 25 000 km, give or take 5 km.
a) How high could the mountain have been?
b) What is the smallest height the mountain could've been?
c) What is the greatest height the mountain could've been?

5. The distance to the crossroads is about 1km, give or take 100 metres.
a) How far away could the crossroads be?
b) What is the furthest the crossroads could be?
c) What is the nearest the crossroads could be?

6. The house is worth £45,000 give or take £2,000.

a) How much could the house be worth?

b) What is the most you could expect the house to cost?

c) What is the least price you would expect for the house?

7. The cost of the shopping came to £24 to the nearest whole pound.

a) What could the bill have come to?

b) What could the lowest possible price of the shopping have been?

c) What could have been the highest possible price of the shopping?

Extension

Have a go at writing each of the questions in a mathematical form. Look at this example question to see what I mean.

The film was 3 hours long, give or take 15 minutes.

So the film could have been anything between 2 hours 45 minutes long (take away 15 minutes from 3 hours) or 3 hours 15 minutes (add 15 minutes to three hours).

We can write this as:

2 hours 45 minutes $\leqslant$ the length of the film $\leqslant$ 3 hours 15 minutes