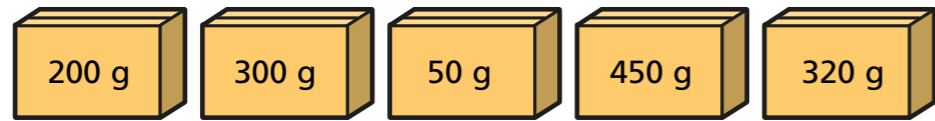


Find the range of a set of numbers

1 Here are the weights of 5 boxes.



a) Eva thinks that the range of the weights is $320\text{ g} - 200\text{ g} = 120\text{ g}$.

What mistake has Eva made?

She hasn't put the boxes in order of weight.

b) What is the range of weights?

400g

2 Work out the range of each set of numbers.

a) 6, 8, 2, 1, 6, 4, 3, 1

7

b) £15, £17, £28, £27, £28, £21

£13

c) 839 m, 900 m, 839 m, 903 m, 983 m

144

d) 56, 65, 0, 56

65

3 The table shows the average amount of water used on some everyday activities.

Everyday activity	Average amount of water used
having a bath	100 litres
flushing the toilet	6 litres
filling a kettle	2 litres
using a dishwasher	15 litres
using a washing machine	60 litres

What is the range of the average amount of water used?

98 litres

4 Work out the range of these numbers.

twenty-five thousand
seven hundred and six

257,006

two hundred and fifty
thousand and seventy-six

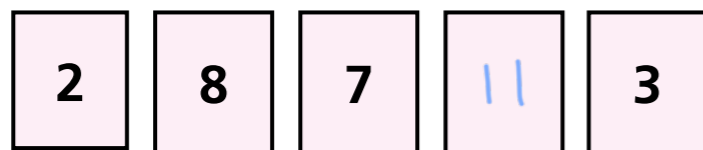
2,500,760

205,706

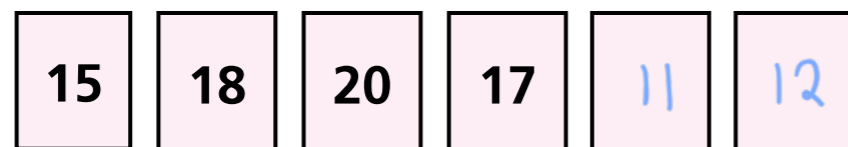
2,475,054

5 The range of each set of cards is 9
What could the value of the blank cards be?

a)



b)



c)



d) Which parts could have more than one answer?

6 The range of a set of numbers is 57
The smallest number is 268

a) What is the greatest number?

325

b) If 268 was the greatest number, what would the smallest number be?

211

7 These are the number of goals scored by a team in their first 5 matches.

3 2 2 1 4

The team play another match, and the range increases to 4
How many goals could have been scored in the 6th match?

5

8 Here are the times that 5 students took to complete a puzzle.

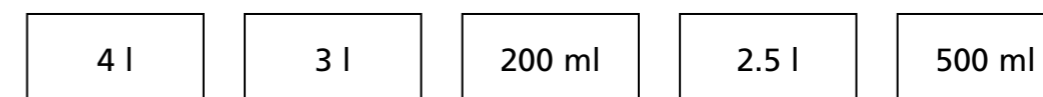
3 minutes 220 seconds 2.5 minutes

1 minute and 15 seconds 125 seconds

What is the range of the times?

145 seconds

9 Annie is working out the range of these amounts.



The range is 497.5

Annie is incorrect.

a) Explain the mistake she has made.

She hasn't converted units.

b) What is the range of the amounts?

3.8L or 3,800ml