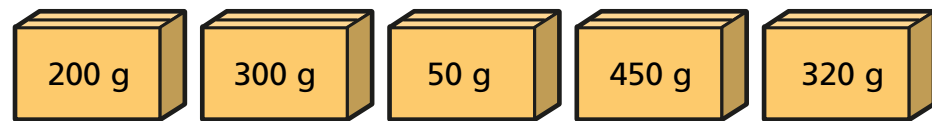


Find the range of a set of numbers

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?

b) What is the range of weights?

2 Work out the range of each set of numbers.

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

b) £15, £17, £28, £27, £28, £21

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

d) 56, 65, 0, 56

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?

4 Work out the range of these numbers.

twenty-five thousand
seven hundred and six

two hundred and fifty
thousand and seventy-six

257,006

2,500,760

205,706

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

a)

2	8	7		3
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b)

15	18	20	17		
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c)

120			
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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?

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



- 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?

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

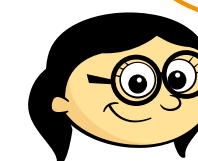
3 minutes 220 seconds 2.5 minutes

1 minute and 15 seconds 125 seconds

What is the range of the times?

- 9 Annie is working out the range of these amounts.

4 l	3 l	200 ml	2.5 l	500 ml
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The range is 497.5

Annie is incorrect.

a) Explain the mistake she has made.

b) What is the range of the amounts?