

## Fluency

- 1) Scott has 2 counters. 
- Dani has 7 counters. 
- Kim has 3 counters. 

Share the counters evenly in order to find the mean number of counters.

- 2) Find the mean of each set of numbers.

a) 

b) 

c) 

- 3) True or false? The mean of these numbers is



- 4) Tick the correct mean of these children's Sports Day scores.

  
25      23      27      26      29



- 5) True or false? The mean of these numbers is 16.



## Application

- 1) Huan collects football cards.  
The table shows how many he collected over four years.

Year	Number of cards
2016	56
2017	104
2018	81
2019	103

Work out the mean number of cards collected per year.

- 2) a) The mean of four numbers is 9  
What is the total of the four numbers?  
b) Write an example of what the four numbers could be if none of them are 9
- 3) The table shows how many pets a number of children have.  
One value is missing.

Name	Number of pets
Brett	4
Nijah	0
Rosie	1
Teddy	2
Esther	
Tom	7

The mean number of pets is 3

How many pets does Esther have?

- 4) A basketball team played four games.  
The mean number of points was 45  
a) How many points did they score in total in the four games?  
b) After the fifth game, the mean increased to 50  
How many points did they score in the fifth game?
- 5) Six numbers are written on cards.  
The mean of the numbers is 12  
Fill in the two missing numbers if one is double the other.

13		4	16	6	
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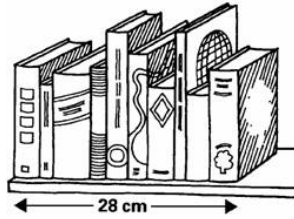
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## Application - GD

- 1) Vicki puts 10 books on a shelf.  
The **10 books** take up **28 centimetres**.



What is the **mean (average)** thickness of her books?

- 2) Last year, Jacob went to four concerts.  
Three of his tickets cost £5 each.



The other ticket cost £7



What was the **mean** cost of the tickets?

- 3a) Megan goes on a walking holiday for five days.

The table shows how far she walked on the first four days.

Monday	Tuesday	Wednesday	Thursday
14 km	23 km	13 km	13 km

Megan says,

**'My average for the first four days is more than 15 km.'**

Explain why Megan is **correct**.

- b) Friday is her last day.  
She wants to increase her average to **17 km**.  
How many kilometres must she walk on Friday?

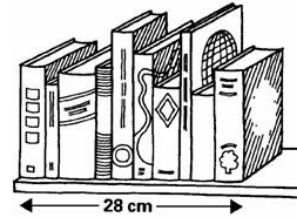
- 4) Three apples have a **mean** (average) mass of 100 grams.  
The largest apple is removed.  
The **mean** mass of the remaining two apples is 70 grams.



What is the mass of the largest apple?

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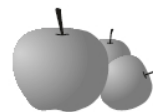
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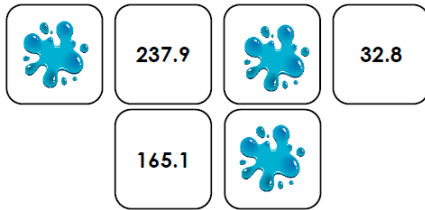
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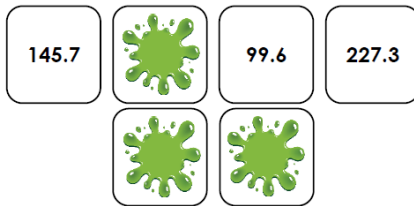
## Application - GD

5) Caroline knows that the mean of her cards is 109.25.



She spilled paint on three of her cards.  
What could the missing numbers be?

6) Oliver knows that the mean of his cards is 145.8



He spilled paint on three of his cards.  
What could the missing numbers be?

7) Five friends are trying to find their mean weight. Sam is 3.5kg heavier than Colton. Colton is 5.2kg lighter than Bryce. Bryce is 1.4kg heavier than Jovan who is 75.8kg. Lewis is 5.8kg lighter than Jovan.



What is their mean weight?

8) Five friends are trying to work out their mean height. Sarah is 32mm smaller than Bobby. Bobby is 7.6cm taller than Ellie. Ellie is 5.3cm smaller than Jordan. Jordan is 1.67m tall. Ethan is 52mm shorter than Jordan.



What is their mean height in cm?