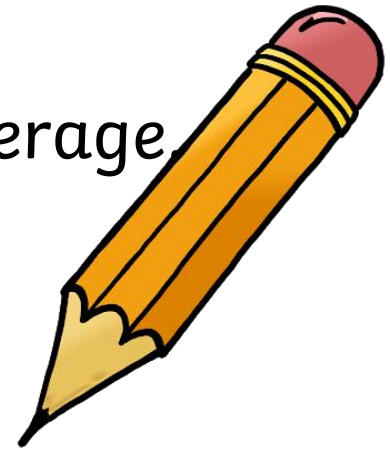


Year 6

Home learning

Maths

Day 7. Finding the Mean Average.



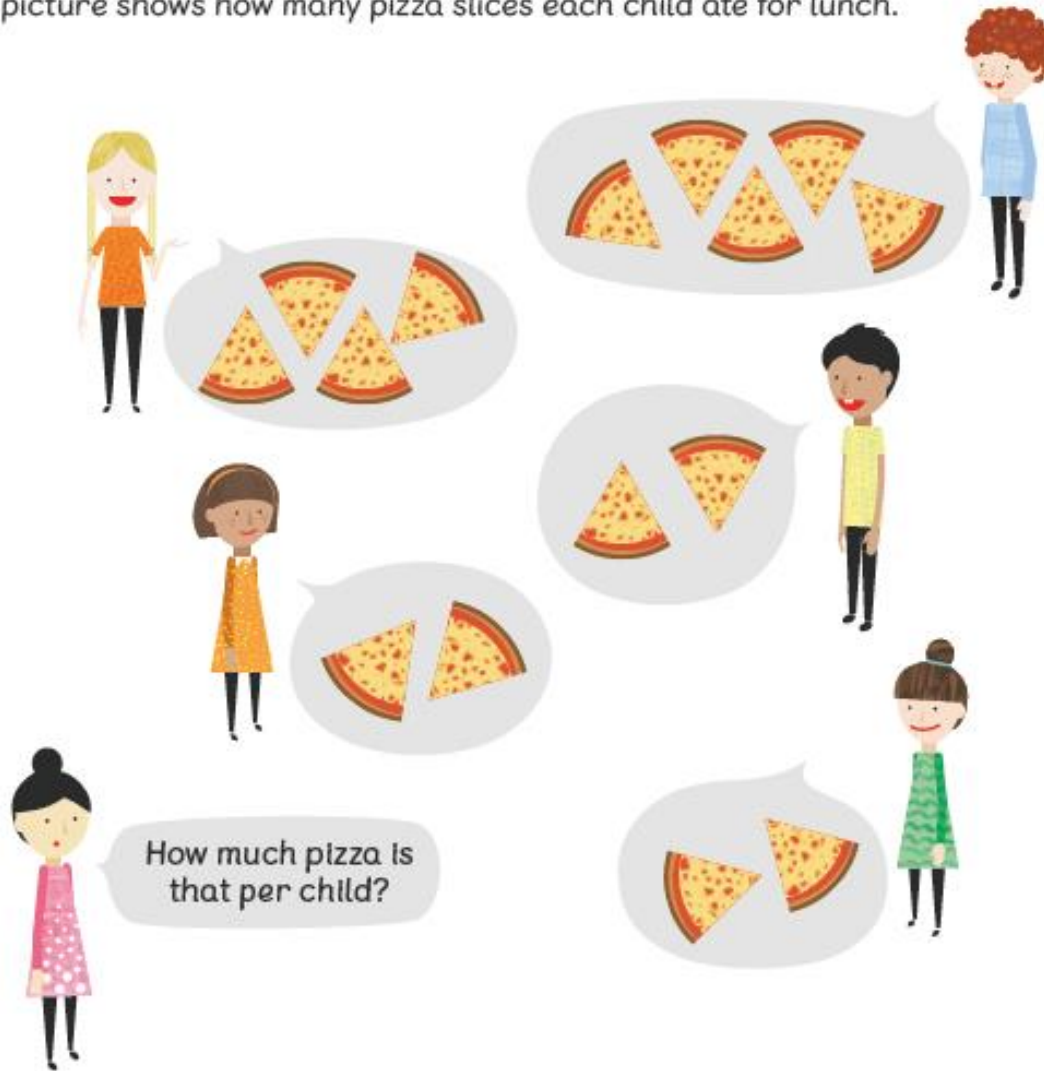
What is **data handling**?

Data handling (also known as statistics):

To collect, handle and present **information** (data) in different ways including: **bar graphs, pie charts, pictograms, line graphs** and more. It also includes working out **averages**.

Let's begin with **mean** averages

The picture shows how many pizza slices each child ate for lunch.



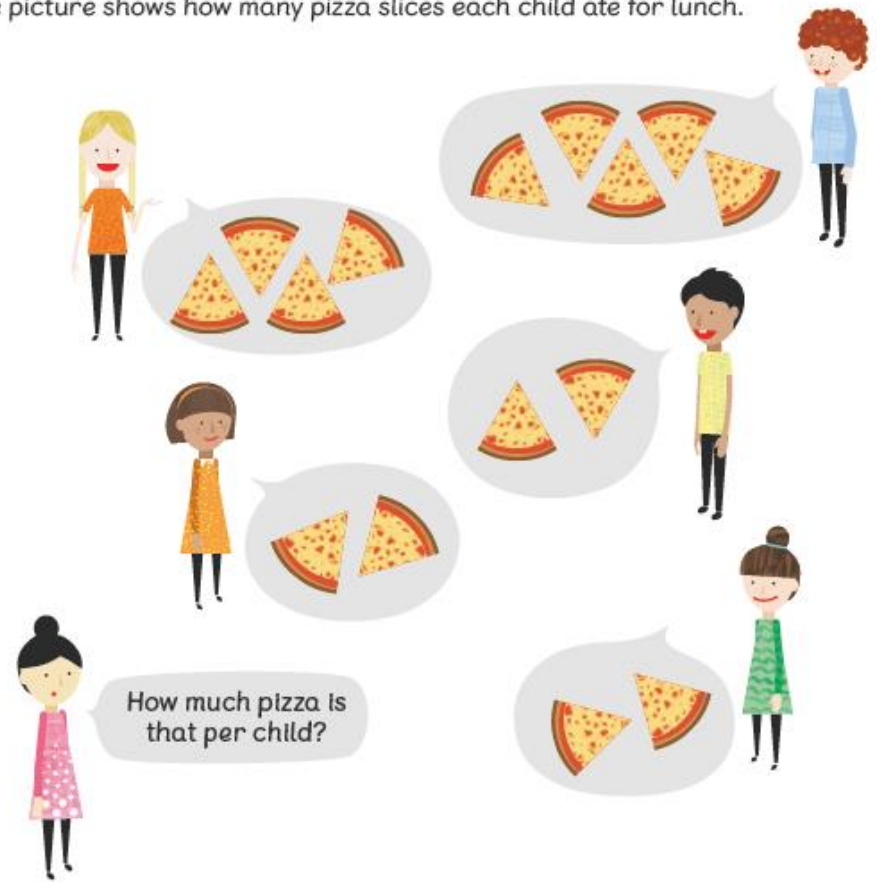
How can you answer this question by giving just one number?

Rather than giving an answer, let's come up with **sentences** to describe the **steps** you need to take to get to the answer.

How to calculate **mean** averages.

1. **Count how many slices there are altogether.**
 - There are **15** slices in total.
2. **Divide this by the number of children.**
 - There are **5** children.
 - **$15 \div 5 = 3$**

The picture shows how many pizza slices each child ate for lunch.



How can you answer this question by giving just one number?

Mean averages

Working out the **mean average** of a set of numbers uses the same **method**.

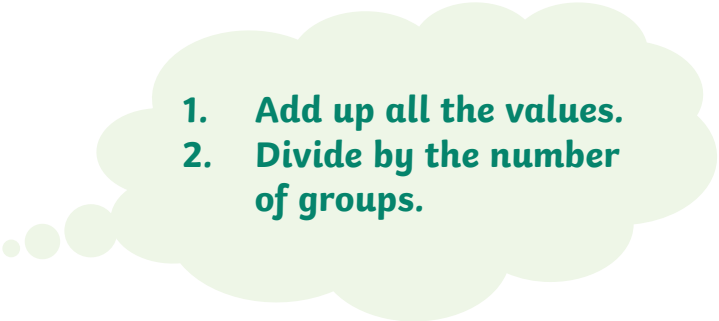
Find the mean of these sets of data:

a) 3, 5, 2, 7, 4, 3

b) 5, 2, 3, 3, 2

c) 8, 9, 12, 17, 11, 3

d) 4, 4, 5

- 
1. Add up all the values.
 2. Divide by the number of groups.

Mean averages Answers

Working out the **mean average** of a set of numbers uses the same **method**.

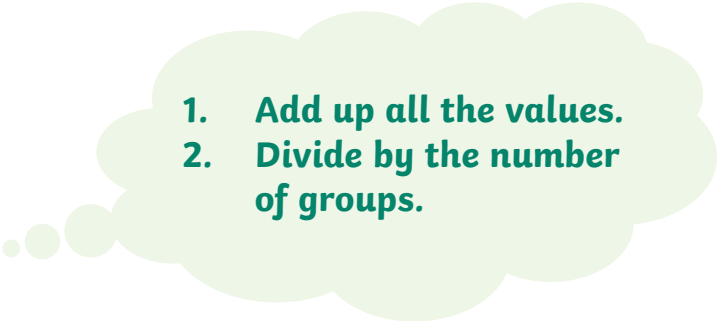
Find the mean of these sets of data:

a) $3, 5, 2, 7, 4, 3 = 6$

b) $5, 2, 3, 3, 2 = 5$

c) $8, 9, 12, 17, 11, 3 = 10$

d) $4, 4, 5 = 6.5$

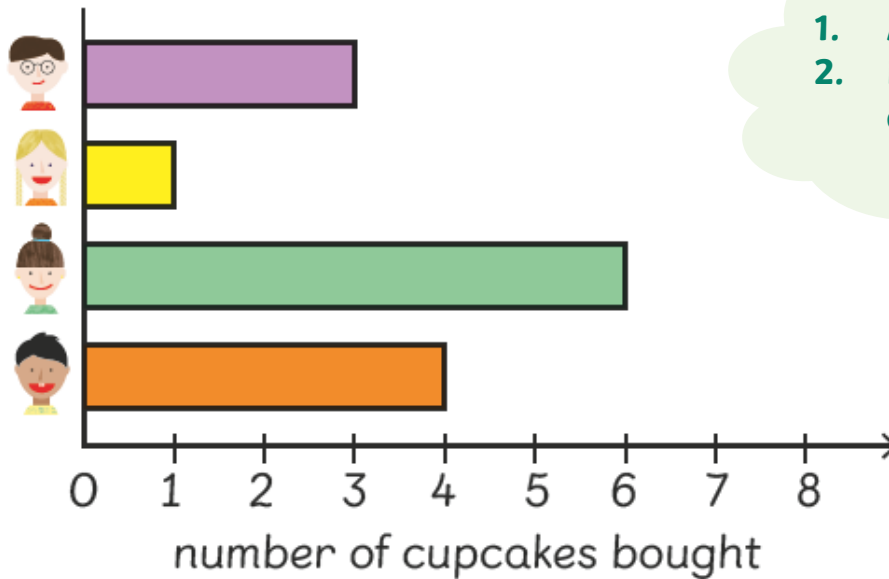
- 
1. Add up all the values.
 2. Divide by the number of groups.

Did you notice?

The mean can be a decimal. $4 + 4 + 5 = 13$.
 13 shared by 2 is 6.5

Lets try this method on some data.

The bar graph shows the number of cupcakes four friends bought at a bakery.



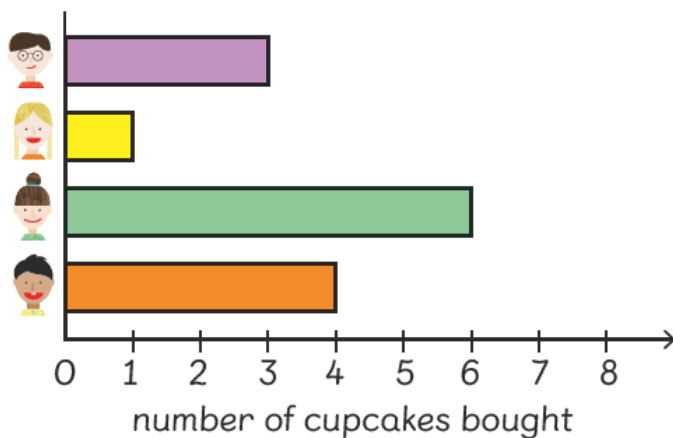
1. Add up all the values.
2. Divide by the number of groups.

Use my method.

On average, how many cupcakes did each of them buy?

Answer

The bar graph shows the number of cupcakes four friends bought at a bakery.



Use my method.

1. Add up all the values.
2. Divide by the number of groups.

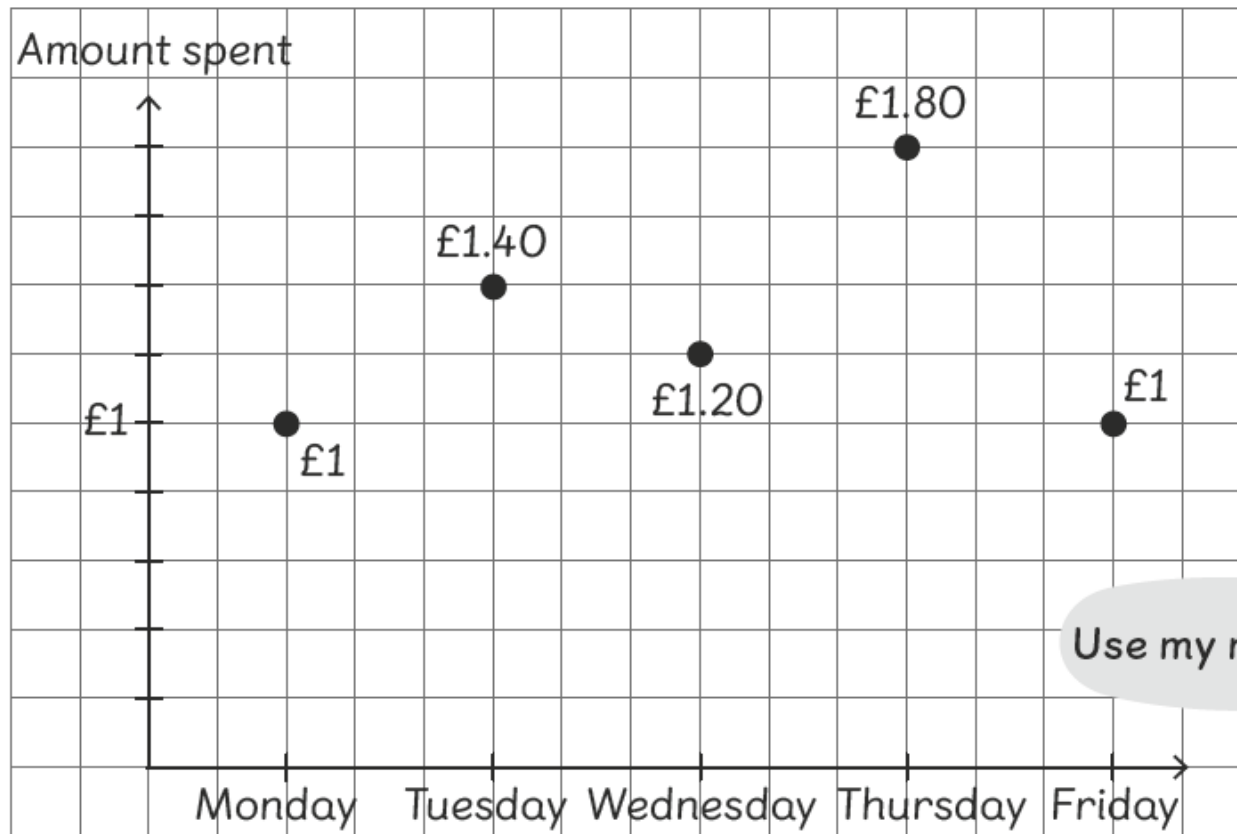
On average, how many cupcakes did each of them buy?

$$3 + 1 + 6 + 4 = 14$$


$$14 \text{ divided by } 4 = 3.5$$

Lets try this method on some data.

The graph shows how much  spent over five days.

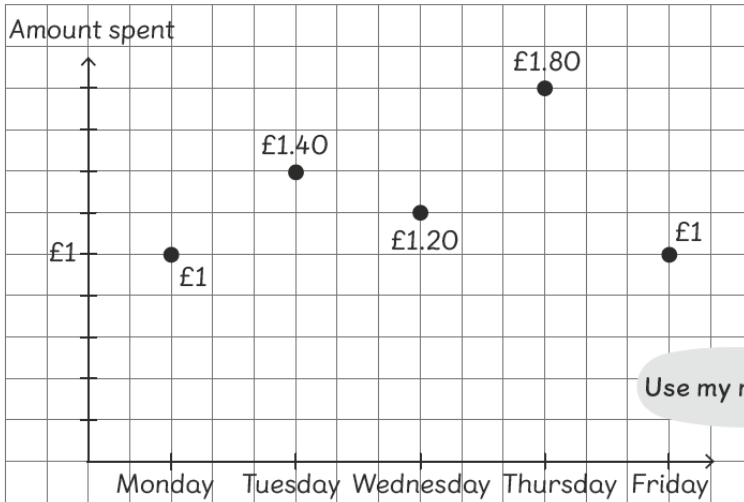


Use my method.

On average, how much did  spend each day?


Answer!

The graph shows how much  spent over five days.



Use my method.




On average, how much did  spend each day?

$$1.00 + 1.40 + 1.20 + 1.80 + 1.00 = 6.40$$

$$6.40 \text{ shared by } 5 = 1.28$$


Answer



 played 6 games during a basketball tournament. After 4 games, her mean score per game was 13 points. For all 6 games, her mean score per game was 14 points.

How many points did she score in the last two games?



 played 6 games during a basketball tournament. After 4 games, her mean score per game was 13 points. For all 6 games, her mean score per game was 14 points.

How many points did she score in the last two games?

If she averaged 13 per game then after 4 games she had scored 52 points in total.

After 6 games she had scored 84 points.

Therefore in the last two games she scored 32 points.