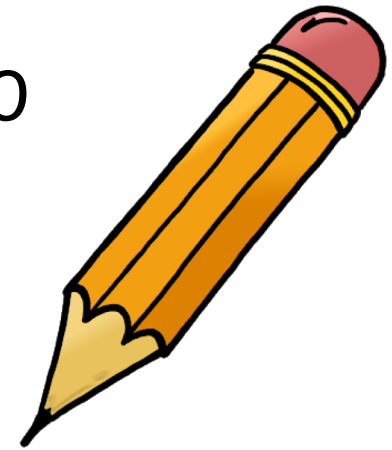


Year 6

Monday 20th April 2020

Maths



What is data handling?

Riddle of the day:

Riddle: I'm tall when I'm young, and I'm short when I'm old, what am I?

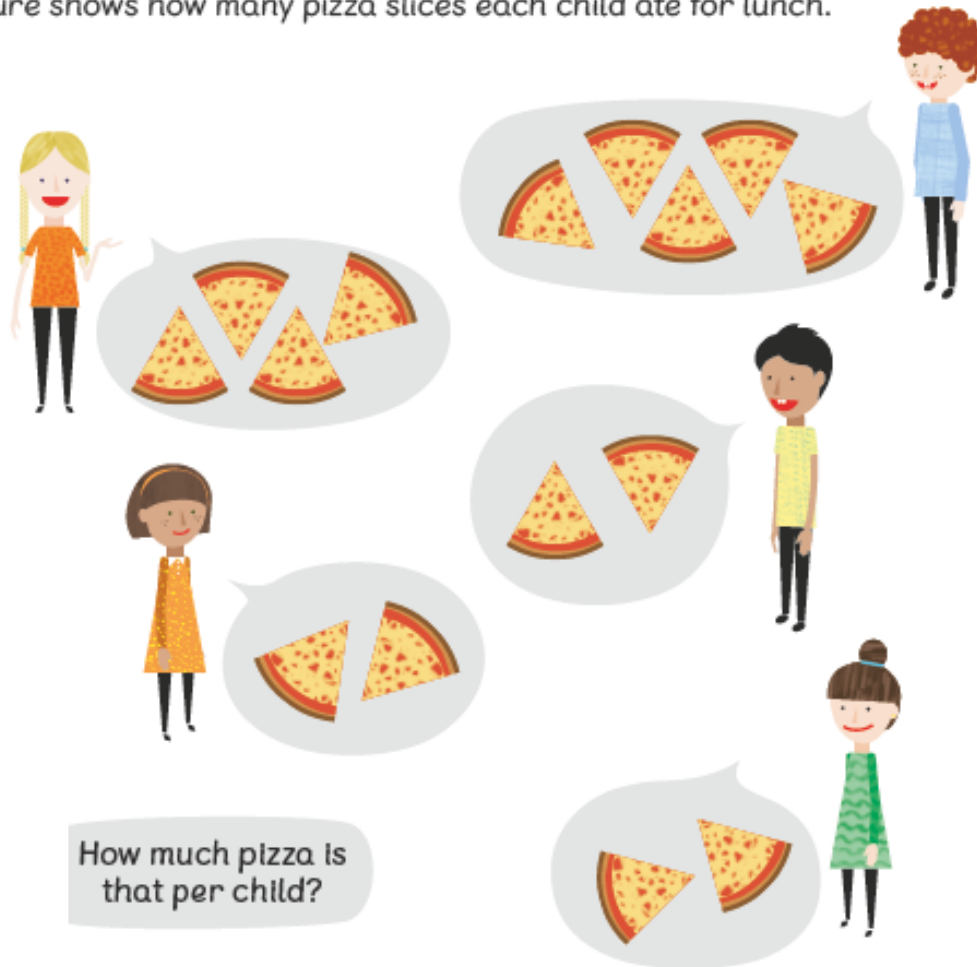
What is **data handling**?

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 – Starter

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



How much pizza is that per child?

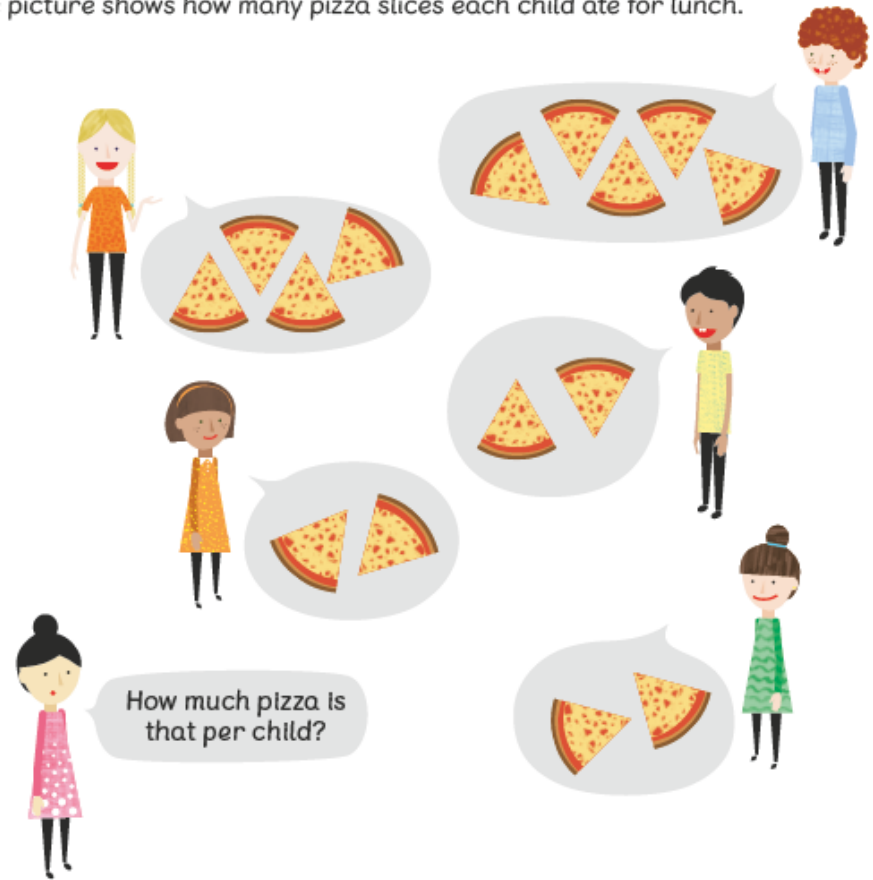
Rather than giving an answer, let's come up with **sentences** to describe the **steps** you need to take to get to the answer.

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

How to calculate **mean** averages – follow these steps.

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**.

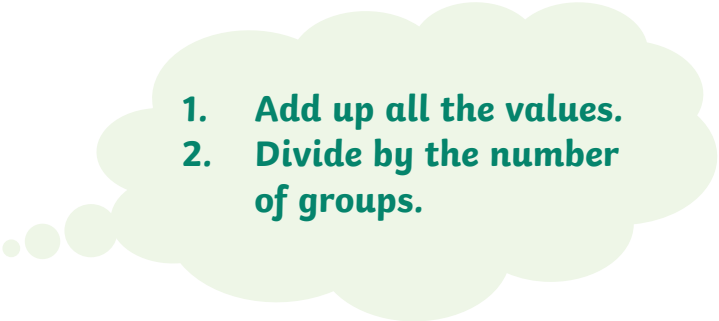
Find the mean of these sets of data:

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

b) 5, 2, 3, 3, 2

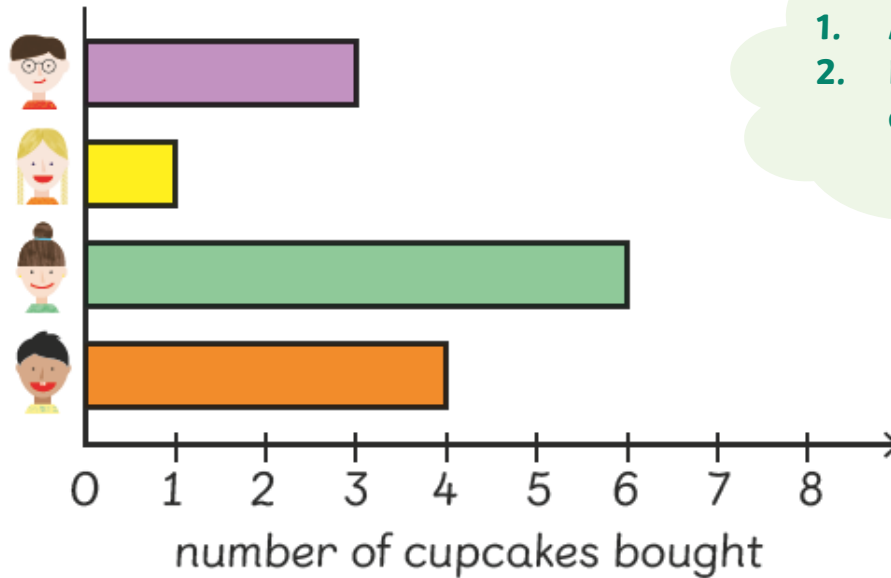
c) 8, 9, 12, 17, 11, 3

d) 4, 4, 5

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

Lets try this method on some data.

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




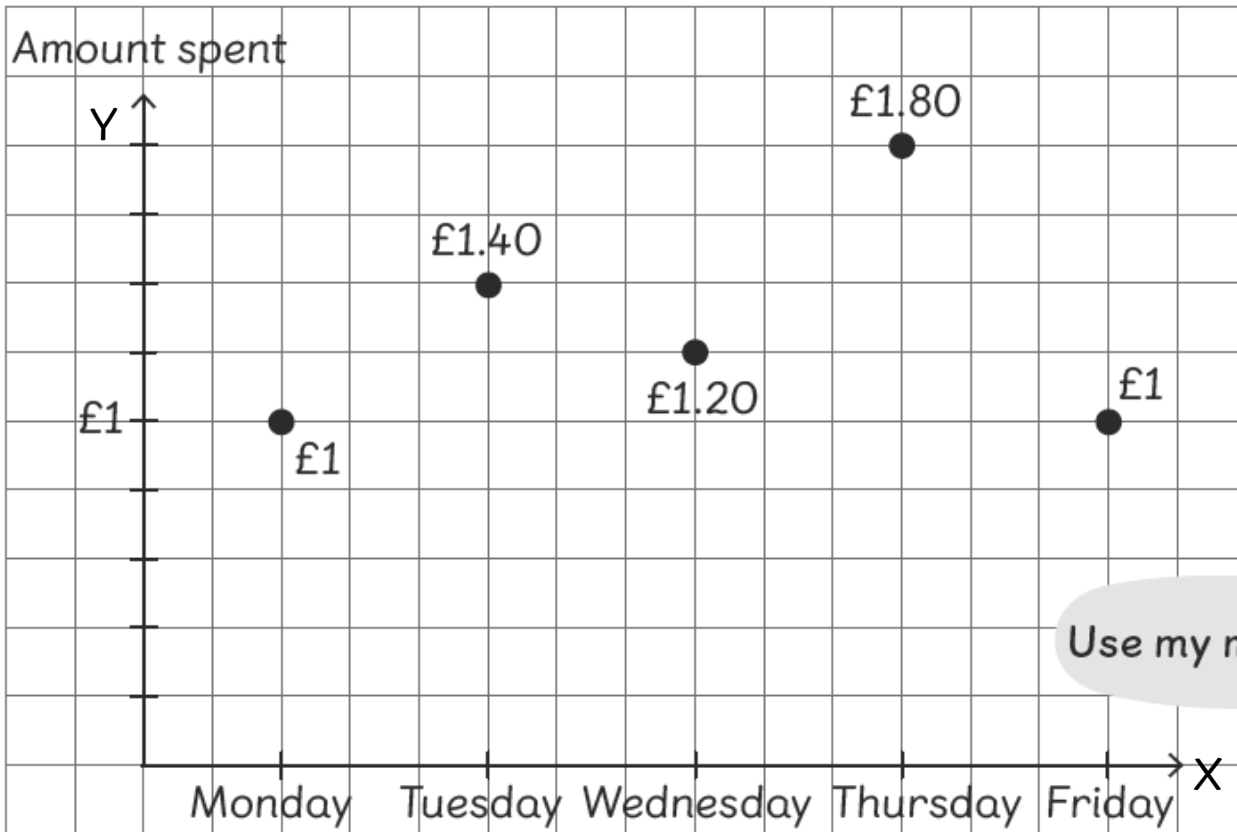
1. Add up all the values.
2. Divide by the number of groups.

Use my method.

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


Lets try this method on some data.

f) The graph shows how much  spent over five days.



Use my method.



On average, how much did  spend each day?

G.



Mo Salah plays for Liverpool.
After 5 games, his **average** was 3 goals per game. How many goals had he scored in total?

After 6 games his **average** was 18. How many goals did he score in his last two games?

Independent work

Independent work continues on the following slides.

There are four questions plus an extension if you wish to challenge yourself.



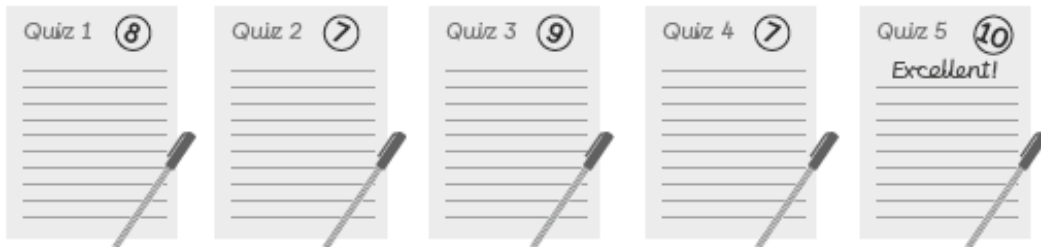
- 1 This table shows the number of cars sold by some salespeople over 4 weeks.

Parker	4
Sophie	8
Emily	6
Bradley	12

- (a) Calculate the mean number of cars sold by each salesperson per week.
- (b) Calculate the mean number of cars sold by all the salespeople per week.

- 2 Emma's scores for 5 different quizzes are shown below.

What is Emma's mean score?




- 3 Some pupils took 3 different quizzes and the score sheet below shows their scores.

	Hannah	Ravi	Lulu	Elliott
Quiz 1	8	6	7	9
Quiz 2	8	7	9	10
Quiz 3	5	8	10	8

Two pupils have the same mean score. Which two pupils are these and what is their mean score?

4.



 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?

Ext:

The mean age of four siblings is 7 years old.

The mean age of the youngest three is 5 years old.

How old is the eldest sibling?

What is the
total age of the
three younger
siblings?

What is the
total age of the
four siblings?

