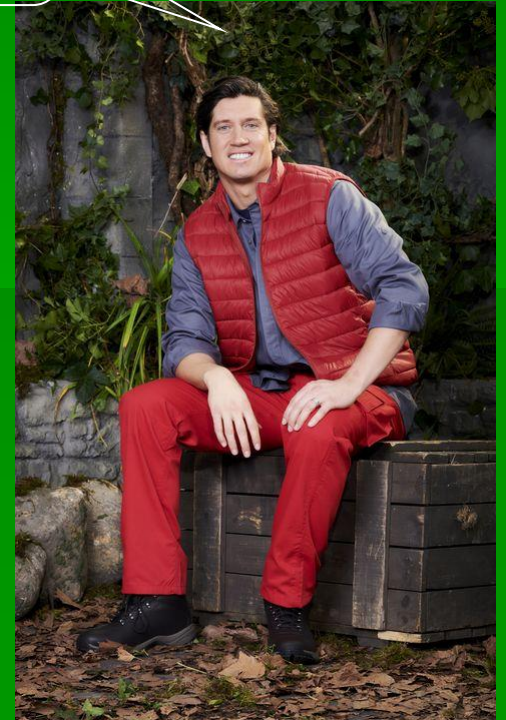


Finding
Averages

There are many ways of finding the average of a set of numbers... we will focus on the mean and range

Range

Mean



Lets start with The Range

- Range is how far from biggest to smallest.
- Put the numbers in order
- Take the smallest number from the largest.

Class shoe sizes: 3, 5, 5, 6, 4, 3, 2, 1, 5, 6

Put in order: 1, 2, 3, 3, 4, 5, 5, 5, 6, 6

Subtract smallest from largest: $6 - 1 = 5$

Range: 5

I'm a celebrity example

- Contestant ages :

18 ;45; 53; 22; 45; 56;
24 ; 38 ; 38 ; 65 ; 23

What is the range ?



The mean is just a type of average. An average summarises groups of data.

Mean

- Average often means the 'mean'
- Mean = total of the numbers divided by how many numbers.

Class shoe sizes: 3, 5, 5, 6, 4, 3, 2, 1, 5, 6

Add up the numbers:

$$3 + 5 + 5 + 6 + 4 + 3 + 2 + 1 + 5 + 6 = 40$$

Divide by how many numbers:

$$40 \div 10 = 4$$

The class mean shoe size is 4

I'm a celebrity example

18 ; 45; 53; 22; 45;
56; 24 ; 38 ; 38 ;
65 ; 23

I wonder what the
mean age of the
contestants would be
this year ?



Remember

- Range = Smallest from Biggest
- Mean = + all and divide by number

