## REASONING WITH DATA. <br> Measures of location

I The Mean
I a measure of average to find the central tendency...
I a typical value that represents the data

## 24, 8, 4, II, 8 ,

## The Median

The value in the center (in the middle) of the data
24, 8, 4, 11, 8,
Put the data in order
$4,8,8,11,24$
Find the value in the middle $4,8,8,11,24$
Median $=8$

Spread: the distance/ how spread out/ variation of data
average: a measure of central tendency - or the typical value of all the data together
Total: all the data added together
I Frequency: the number of times the data values occur
I Represent: something that show's the value of another
Outier: a value that stands apart from the data set
Consistent: a set of data that is similar and doesn't change very much

Find the sum of the data (add the values) 55
I Divide the overall total by how many $55 \div 5$
I pieces of data you have

## Keymords

I

## The Mode (The modal value)

This is the number $O R$ the item that occurs the most it does not have to be numerical

## I Choosing the appropriate average

The average should be a representative of the data set - so it should be compared to the set as a whole - to check if it is an appropriate average

Which average best represents the weekly wage?

## dentify outiers

Outliers are values that stand well apart from the rest of the data

I Outliers can have a big impact on range and mean

Where an outlier is dentified try to give it some context. This is likely to be a taller member of the group. Could the be an older student or a teacher?


Sometimes it is best to not use an outlier in calculations


