

This task is best used at the beginning of teaching statistics with AS students, as it gives the opportunity to see what prior knowledge each student has of statistics and it encourages them to work as in groups.

Students are put into small groups of 2 or 3 and each group is given a one of the statements below. There are blank spaces for you to add your own statements more relevant to your students.

Their task is to plan how they would prove or disprove the statement.

They need to think about:-

- methods used to collection the data
- ways to record the data
- which statistical measures are appropriate to use
- ways to present the data
- ways to report the findings
- for their statement.

Each group completes a task sheet which highlights their ideas for them to feedback to the whole group.

Although, the students are not doing the calculations, the task generates a lot of discussion involving the students describing what methods and measures they would use.

The final sheet - Statistical Measures - Definitions, can also be completed within each group to summarise they knowledge of each measure.

Girls are better than boys at Maths

A' levels are getting easier

Everyone has a mobile phone

Young people will never be able to buy a house of their own

Tesco gives you the best deal on price

There are more obese children now than 20 years ago

Global warming is a myth

Young people are not interested in politics



Task:-

Data collection

Record data

Statistical measures

Present data

Report findings

Statistical Definitions	
Continuous variable	
Discrete variable	
Frequency distribution	
Class width	
Class mid-point	
Stem and leaf diagram	
Histogram	
Cumulative Frequency Graph	
Box plot	
Mean	
Mode	
Median	
Quartile	
Percentile	
Range	
Interquartile range	
Variance	
Standard Deviation	
Correlation	