

REACTIONS



In some countries traffic lights change straight from red to green. The time a motorist takes to react to this change is their reaction time.

Experiments have been carried out to measure reaction times. One such experiment involves measuring the time taken to press a button when a light changes from red to green.

Your task will be to write one, or more, hypotheses about people's reaction times. Using appropriate data and statistical techniques you will test and investigate your hypotheses and in the process carefully plan and specify the methods you have used. You must make the aims of your investigation clear.

A sample of data for such an experiment described above is provided on the website in table form. You may like to:

- a) use this table to decide on the hypotheses that you are going to test
- b) Write down a draft set of aims
- c) Outline how you are going to obtain the evidence to support or contradict your hypothesis

Remember what you decide to investigate will influence the data you collect.

You may wish to take a sample of the data to examine your hypotheses and draw diagrams and perform calculations to investigate your data.