

Number Recognition

Pupil Worksheet

Aim

To compare the accuracy of estimating the numbers of dots arranged in a random pattern to those arranged in a regular pattern.

Objective

Participants have a go at guessing the number of dots they are shown for a short time. The dots may be arranged in an easily recognisable pattern or may be unpatterned.

A Carrying out the investigation

Design your experiment by thinking about what you would like to find out. For example:

Are girls better at recognising patterns of numbers than boys?

Is it harder when given larger numbers?

Are younger people better at recognising numbers than older people?

1. I would like to find out
2. My hypothesis is that
3. I am going to test participants. (How many?)
4. I am going to change
(E.g. the age of the participants). This will be.....

Have a go at the online experiment.

B The Results

Make a graph of your results using the table of results from your experiment.

1. What do your results show?
2. What do your results mean?
3. Try using data from the website to test a different hypothesis.