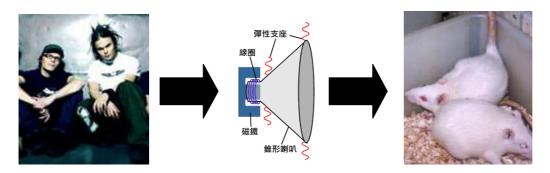
Interpreting Data

As part of an ongoing project on lifestyle choices amongst the species *Rattus Norwegicus*, Fakedata & Fraud (2004) conducted research into whether rats preferred The Red Hot Chilli Peppers to The Rasmus. The rats were placed, individually, in glass boxes. In each box was a loudspeaker and a lever. Music was played at an average sound intensity of 100dB through the loudspeaker. The rat could turn off the music by pressing the lever. The lever was also attached to a timer, which recorded the interval in seconds between the music commencing and the rat pressing the lever.



The rats were randomly assigned to one of two conditions:

- Condition 1: the music played was 'In The Shadows' by The Rasmus
- Condition 2: the music played was 'Give It Away' by the RHCPs

They conducted their experiment twice, to check reliability.

Experiment 1: Results

	Mean duration	Range	S'd Deviation
Rasmus	17.6s	24s	5.3s
RHCPs	24.3	7s	3.8s

Experiment 2: Results

	Mean duration	Range	S'd Deviation
Rasmus	22.9s	8s	2.1s
RHCPs	25.7	5s	3.1s

- 1. Comment on the results of the experiments, referring to all the measures given.
- 2. Suggest some conclusions that the researchers may have drawn from the results of their experiment.

More rat-oriented hilarity overleaf...

Data Interpretation

Here are the results from the 'Rasmus' condition of experiment 1:

Rat Number	Duration of music (s)
1	18
2	26
3	16
4	17
5	2
6	15
7	12
8	18
9	13
10	14

Did the researchers use the right descriptive statistics to describe their data? Explain your answer.

Research Methods Revision

Referring to the experiment carried out by Fakedata & Fraud (2004):

- 1. Suggest a suitable hypothesis for the experiment.
- 2. What were the IV and DV in this experiment?
- 3. Suggest why the rats were randomly assigned to the two conditions.
- 4. Identify one variable controlled by the researchers and suggest why they needed to control it.
- 5. What is meant by 'reliability'? Were the researchers' findings reliable?
- 6. Does this experiment raise any ethical issues? Explain your answer.





Earlier on in their research project, Fakedata & Fraud (1997) investigated whether exposure to Barry White records had an effect on reproduction in rats. Suggest how they could have carried out a **correlation study** to investigate this.