

Tamati and Kahu are playing a computer game where the score depends on reaction time. Tamati is winning. Kahu says that the reason for this is that Tamati's hands are smaller.

Investigate Kahu's theory.

You need to do this by completing the statistical enquiry cycle.

Your plan needs to include:

- The relationship question/ statement/ hypothesis ( 2 or more than 2 of these) .
- The variables you will be investigating.
- How you will measure these variables.
- How you will collect the data to answer the question.
- What things might affect the measures you take (ie possible sources of variation).
- How many samples you will collect.
- How you will record your results.

handspan (mm)	Reaction time (s)	handspan (mm)	Reaction time (s)
220	21	235	11.2
225	16	190	16
200	9	180	14.5
210	10	179	16
250	11	181	18
215	17.5	190	18
220	17	195	18
192	20	195	16
190	15	200	20
190	22.3	200	16
188	17.6	205	15
185	15	215	14
183	14	140	19.5

### ANALYSIS & CONCLUSION

Work on your own to analyse the data and write a conclusion.

- Draw at least one appropriate graph to show features of the distribution.
- Discuss features of the distribution. Features could include: clusters or groups, outliers, trend, spread or variation of the data etc.
- Write a conclusion summarising your findings. The conclusion should:
  - o Answer your question/ Be supported with evidence