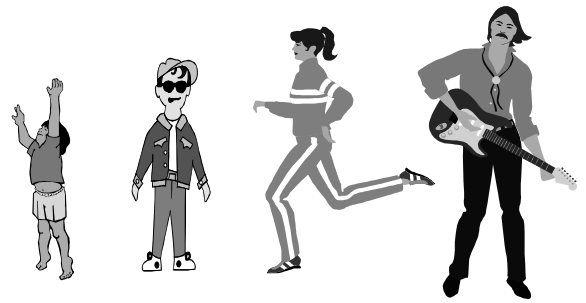


Anthropometric Data



Teacher Notes

Unit Advanced Level, Using and applying statistics

Skills which may be used in this activity:

- drawing scatter diagrams
- finding lines of best fit or regression lines
- calculating correlation coefficients

Notes

The accompanying Excel Spreadsheet contains anthropometric data from a large sample of children and young adults. The data has been developed for use by students studying FSMUs. It has been taken from a study carried out in the USA by the Consumer Product Safety Commission (CPSC). The full dataset is available from a website set up in a joint effort between the CPSC and the Information Technology Laboratory (ILT) at the National Institute of Standards and Technology (NIST). This data is thought to be the only public domain data base of child anthropometric data and provides a valuable resource for product designers.

The address of the website is: <http://ovrt.nist.gov/projects/anthrokids>

The Excel spreadsheet gives the data for males and females on separate sheets.

For each child the data includes:

- weight (newtons)
- stature (mm)
- head, chest and waist circumferences (mm)
- shoulder breadth (mm)
- hand length and breadth (mm)
- foot length and breadth (mm)
- age (months)

On each sheet of the file the data has been sorted by age and stature.

The data can be used to introduce and practise ideas about correlation and regression, or as the basis for an assignment set on these topics. The large quantity of data means that it will be possible for students to be given individual assignments if you wish. The children are numbered so that different samples can be easily identified.

N.B.

Please note that there is a large quantity of data on each sheet of the Excel file and it is not recommended that you print all of it at once.

