## BACKGROUND



You are about to assist with investigating the answer to this question.

## ENTER YOUR MESUREMENTS

## METHOD

Measure your height and cranium circumference and enter those details onto this worksheet and the spreadsheet on the nearby computer
If the computer area is busy please call back later to enter your results.
You will see your result appear as a point on the scatter plot being projected on the screen.
Also on the graph you will see some other data that may be of assistance in the investigation. Ask AMSI staff on the stand to explain how this information could be of use.

During the next few days of the Science Festival we will gather as much information as possible to answer the question posed.

## THE MATHEMATICS INVOLVED

Once all the data has been collected and entered into the spreadsheet a scatterplot will be produced of the data.

From this scatterplot we may be able to see a correlation between the variables. The strength of the correlation can be found by calculating the correlation coefficient.

We can also produce a regression line for the data. And from this calculate the equation for the regression line.

From the regression line equation, we can make predictions regarding the height of a person from the circumference of their cranium.

> So is there a relationship between these variables?

Please visit the AMSI web site to see the final results of this investigation AMSI.ORG.AU/CSIAMSI

## CSIAMSI INVESTIGATION

