

<b>EDEXCEL 2003 DISPATCH 1</b>	<b>CANDIDATE SHEET</b>	<b>SYLLABUS 1387/1388</b>
<b>MATHEMATICS GCSE</b>	<b>MAYFIELD HIGH SCHOOL</b>	<b>F, I &amp; H</b>

Mayfield is a fictitious High School but the data presented is based on a real school.

The following data is provided:

<b>Year Group</b>	<b>Number of Boys</b>	<b>Number of Girls</b>	<b>Total</b>
7	151	131	282
8	145	125	270
9	118	143	261
10	106	94	200
11	84	86	170

The total number of students at the school is **1183**.

Data is provided on each student such as **Name, Age, Year Group, IQ, Weight, Height, Hair Colour, Eye Colour, Distance from home to school, Usual method of travel to school, Number of brothers or sisters, Key Stage 2 results in English, Mathematics and Science.** There is a total of

$1183 \times 27 = 31941$  datum points  
from which you can select some to develop a statistical investigation or line of enquiry.

There are a number of possible lines of enquiry, here are some examples

1. the variations in hair colour,
2. the variations in eye colour,
3. the relationship between the above two colours,
4. the distances travelled to school,
5. the relationship between height and weight,
6. the relationship between two sets of Key Stage 2 results,
7. the relationship between IQ and Key Stage 2 results
8. the height to weight ratio in terms of the body mass index.

After discussions with your teacher, you should choose one of these or a similar line of enquiry.

It is important that you choose a line of enquiry which will allow you to show what you know and can do within the area of statistics.