Inside Class

**2-Variable Statistics Lesson 1**

Explore: **Ex. 1**

Statements I, II, III, IV and V represent descriptions of the correlation between two variables.

I High positive linear correlation  
II Low positive linear correlation  
III No correlation  
IV Low negative linear correlation  
V High negative linear correlation

Which statement **best** represents the relationship between the two variables shown in each of the scatter diagrams below?



Explore: **Ex. 2**

The diagram below shows the marks scored by pupils in a French test and a German test. The mean score on the French test is 29 marks and on the German test is 31 marks.



(a) Describe the relationship between the marks scored in the two tests.

(b) On the graph mark the point M which represents the mean of the distribution.

(c) Draw a suitable line of best fit.

(d) Idris scored 32 marks on the French test. Use your graph to estimate the mark Idris scored on the German test.