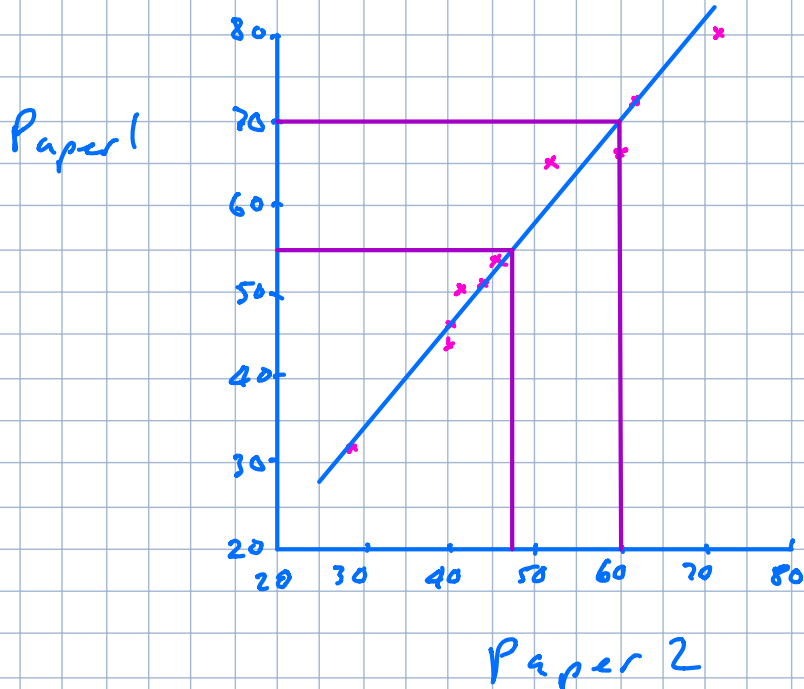


Scattergraph Example

Maths Paper 1	72	51	46	65	80	32	50	66	53	44
Maths Paper 2	62	44	40	52	72	28	42	60	45	40



Line of Best Fit
showing strong
positive correlation

Strong correlation
is shown by the
points being close
to line of best fit

Using a scattergraph

A student scored 60 on Paper 2. Estimate their score on Paper 1
Answer 70

A student scored 55 on Paper 1. Estimate their score on Paper 2
Answer 48

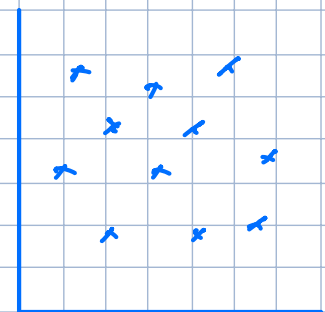
Correlation



Positive
Correlation



Negative
Correlation



No
Correlation
(like a snow storm)

Positive correlation occurs when one variable increases as the other variable increases

Example Height and Shoe Size

Negative correlation occurs when one variable increases as the other decreases

Example Mileage of a car and its value

No correlation occurs when there can be seen no association between two variables

Example Height and Hours spent on weekly homework

It is not the gradient of line of best fit that indicates strong correlation, but it is the closeness of the points to the line.

It is important to realise that correlation does not imply causation!
