

Scattergrams and Accuracy

-

1 Plot these points on a scattergram.

Pupil	A	B	C	D	E	F	G	H	I	J	K	L	M
Shoe size	2	2	3	4	5	7	6	5	6	7	4	3	2
Height	1.3	1.5	1.4	1.4	1.5	1.8	1.7	1.6	1.6	2	1.3	1.5	1.3

a) What type of correlation does the scattergram show between shoe size and height?

b) What can you usually say about a the connection between shoe size and height?

2. Plot these points on a scattergram to show the connection between revision and number of GCSE passes.

Pupil	A	B	C	D	E	F	G	H	I	J	K	L
Hours Rev.	45	67	97	34	5	78	34	12	49	76	89	90
No. GCSE	4	6	9	1	0	5	2	1	5	8	9	10

a) Draw a line of best fit onto the scattergram.

b) Use this line to estimate how many hours are needed for 7 GCSE passes.

3. Gail decides to do a survey on a persons age and the money that they spend on clothes. Here are the results:

Age	39	18	20	14	13	22	34	21	47	19	23	24	16	17
Money £	10	20	26	10	9	24	57	26	10	27	23	19	12	16

a) Draw a scattergram and put on a line of best fit for the 0 to 30 age range.

b) Why do you think that the older ages do not fit onto the line?

4. Copy and complete this chart.

Number	1 d.place	2 d.place	3 d.place	4 d.place
99.98231				
9.92749				

5. Copy and complete this chart.

Number	1 sig. fig.	2 sig. fig.	3 sig. fig.	4 sig. fig.
0.0076237				
9.0927				