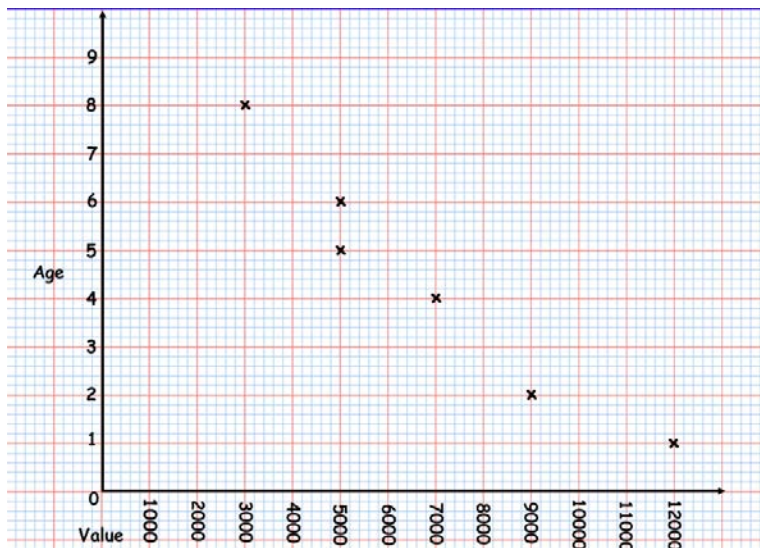


Scatter Graph Worksheet

For each of the graphs below; a) describe the type of correlation the graph shows,
b) what the practical interpretation of this is and
c) draw a line of best fit.

1. Below is a table and incomplete scatter graph investigating the cost of breakdown/maintenance costs for nine machining centres. Plot the last three points from the table.

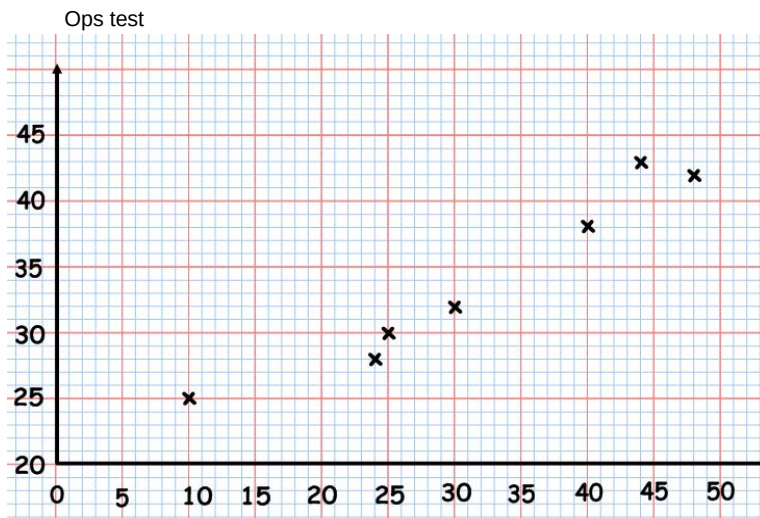


a)

b)

Value (£)	5,000	9,000	3,000	12,000	7,000	5,000	7,000	2,500	500
Age (years)	5	2	8	1	4	6	3	8	9

2. Here is a scatter graph showing the results in a health & safety knowledge test and in a test to establish familiarity with standard operating procedures for employees at a foundry. Plot the last three employees' results on the graph.



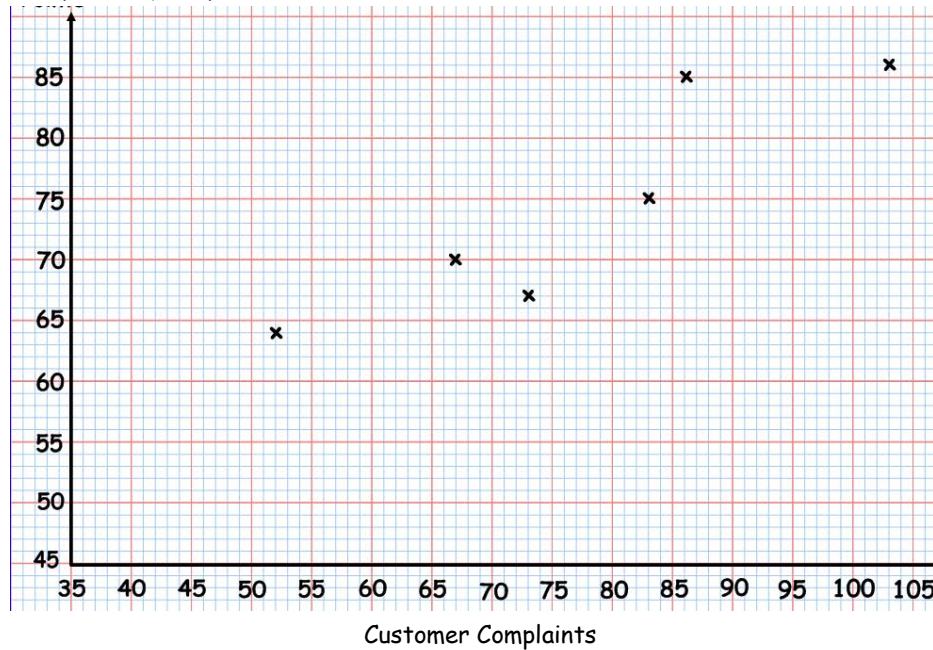
H&S Test	Ops Procedures Test
44	43
24	28
40	38
48	42
30	32
25	30
10	25
37	35
34	37
38	40

a)

b)

3. The table below shows the number of internally reported quality related issues and number of customer complaints for the previous 12 months. Plot the last FOUR points to complete the scatter graph.

reported quality issues

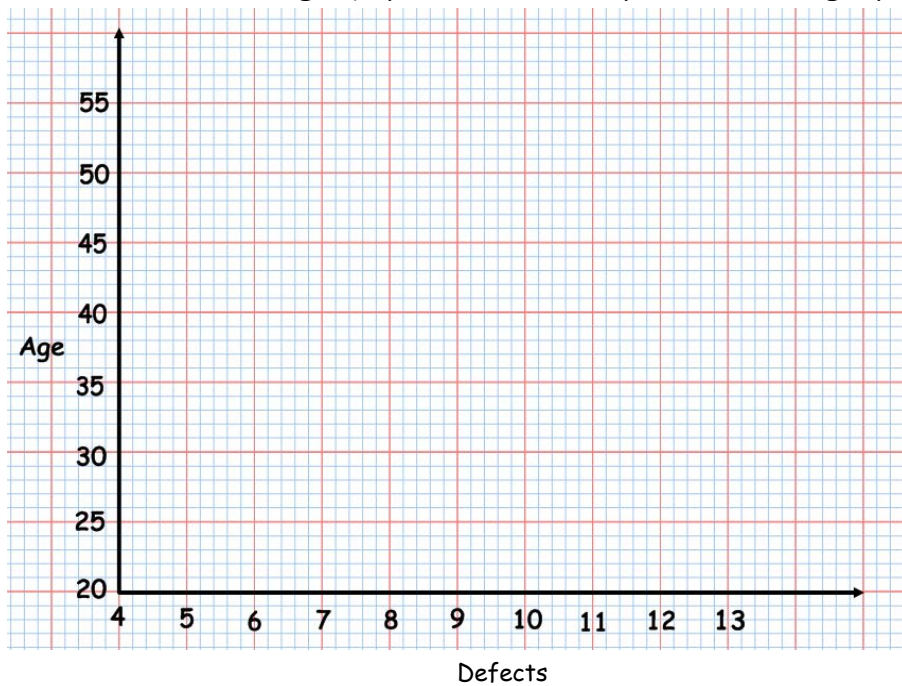


Customer Complaints	# reported quality issues
103	86
86	85
83	75
67	70
73	67
52	64
61	63
60	61
38	50
41	50

a)

b)

4. Here is a table showing the number of defects produced and the age of the manufacturing equipment. Plot the points on the graph.



Age of machine (yrs)	Defects
31	11
26	8
53	12
45	10
50	6
38	7
28	5
34	6
30	10

a)

b)