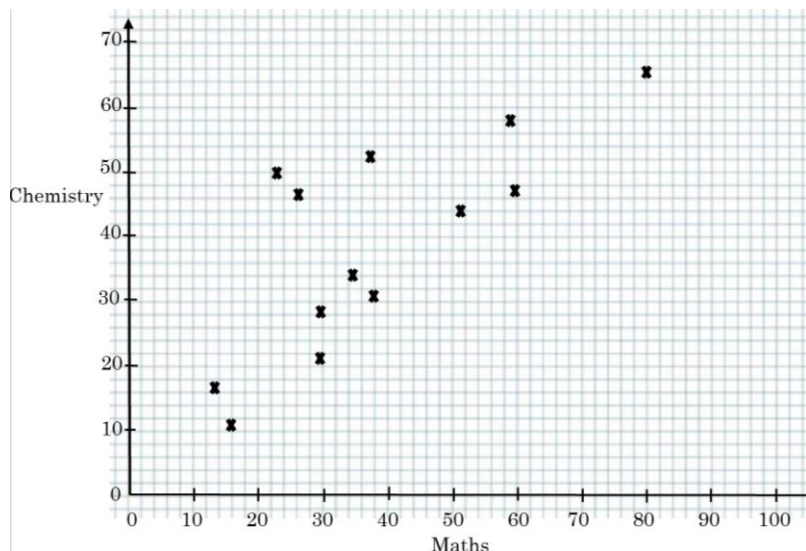# Scatter Graphs Exam Practice

Q1. The scatter graph shows the scores of some students who have completed a maths and a chemistry test.
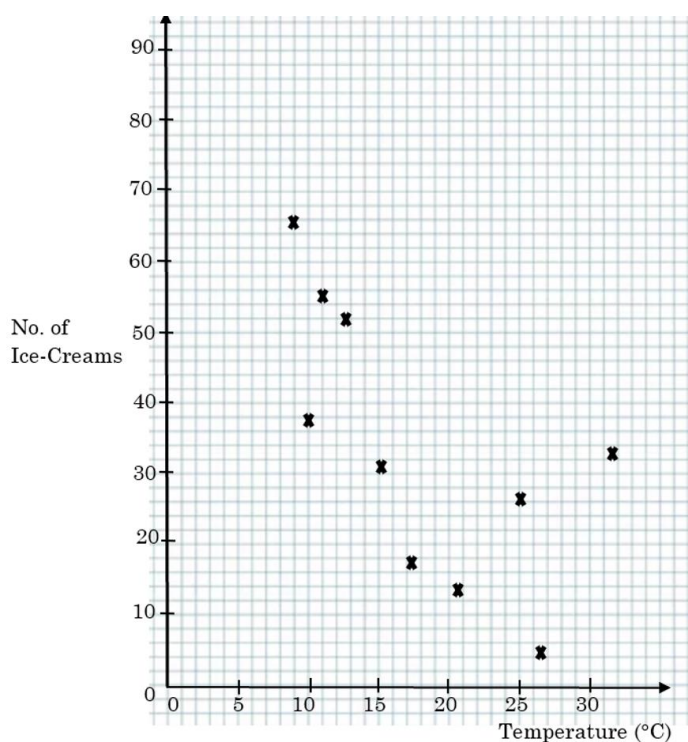

a) How many students scores were recorded?

(1 mark)

b) Describe the correlation shown by the graph.

(1 mark)

c) Sarah got 45 in the maths test but was ill for her chemistry test. Her teacher decides to use the graph to predict her chemistry score. What score did the teacher predict for Sarah in the chemistry test?

(2 marks)

Q2. For a number of days, the number of sales of ice-cream and the daily mean temperature is recorded. The results are shown below:

a) (i) Describe the correlation shown on the graph

(1 mark)

(ii) Interpret your answer to part (i)
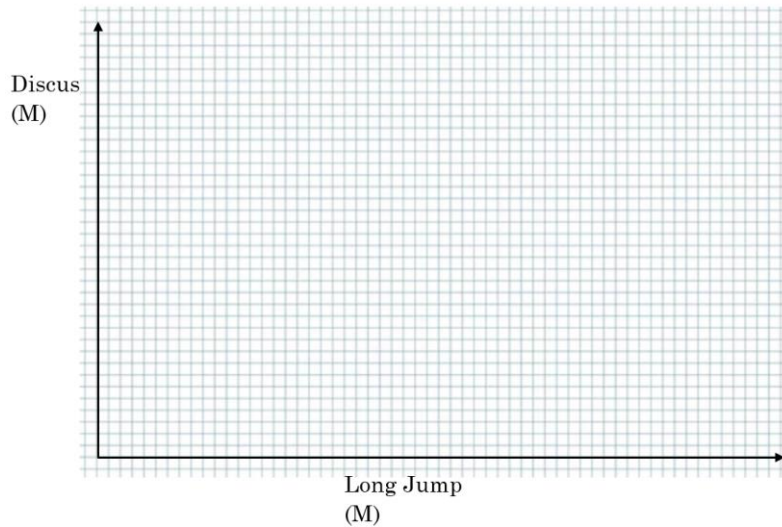
(1 mark)

b) One of the values has been incorrectly recorded. Circle which one it is on the graph.

(1 mark)

Q3. A researcher records the results on a number of athletes performance in two events, throwing the discus and the long jump.

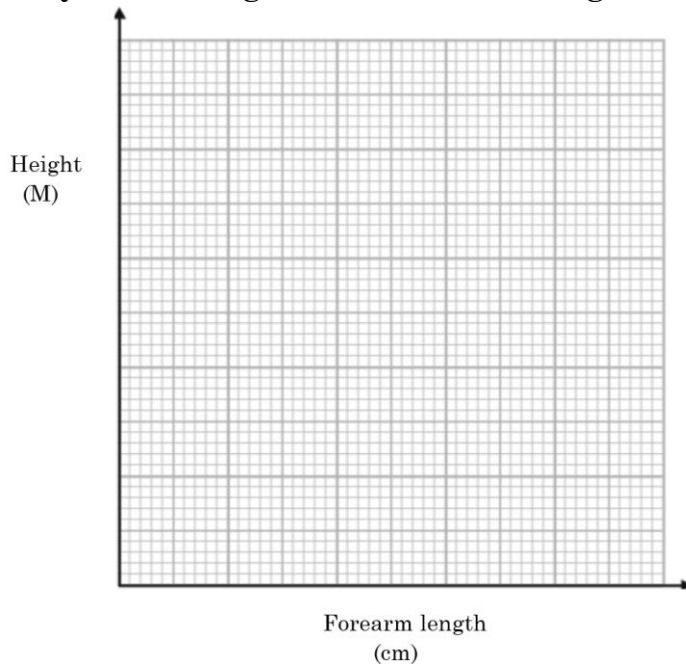a) Plot the results on the scatter graph below. (3 marks)

Discus
(M)

Long Jump
(M)

Discus	72	60	64	50	45	52	53	37	28
Long Jump	5.2	5.8	6.0	6.9	7.2	7.4	8.3	8.5	8.7

b) A new athlete jumps 6.5m. Predict how far he throws the discus using the graph, and comment on the reliability (2 marks)

Q4. The height and forearm length of a number of students is recorded.

Height
(M)

Forearm length
(cm)

a) Plot the results on the graph above

(3 marks)

b) (i) A student is 1.65 m tall. Estimate the length of her forearm.

(1 mark)

(ii) Comment on the reliability of your answer to part (i)

(1 mark)

Forearm Length	32	34	30	38	41	38	37	40	45
Height	1.70	1.68	1.78	1.80	1.85	1.74	1.78	1.75	1.82