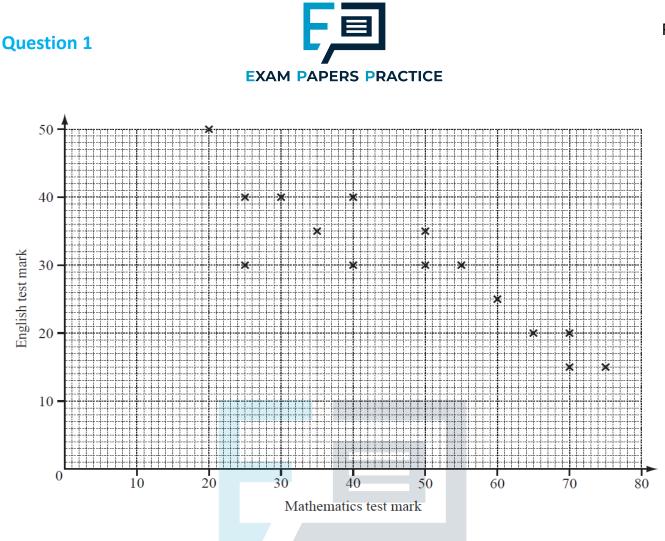


Correlation

Model Answer



The scatter diagram shows the marks obtained in a Mathematics test and the marks obtained in an English test by 15 students.

(a) Describe the correlation. [1]
Negative correlation Ders Practice
(b) The mean for the Mathematics test is 47.3 . The mean for the English test is 30.3. Correct point
Plot the mean point (47.3, 30.3) on the scatter diagram above. [1]

- (c) (i) Draw the line of best fit on the diagram above. Accurate ruled line [1]
 - (ii) One student missed the English test. She received 45 marks in the Mathematics test.

Use your line to estimate the mark she might have gained in the English test. [1]

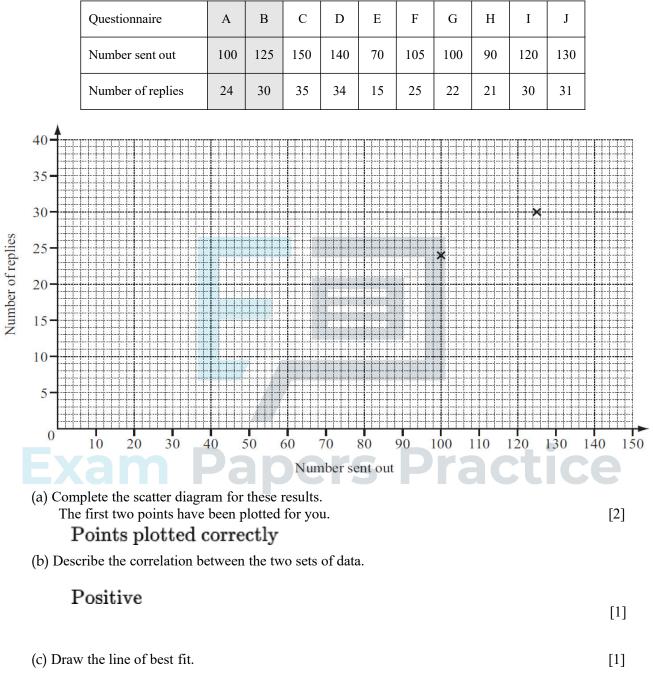
English mark

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Question 2



A company sends out ten different questionnaires to its customers. The table shows the number sent and replies received for each questionnaire.



Line of best fit ruled

Question 3



The owner of a small café records the average air temperature and the number of hot drinks he sells each day for a week.

Air temperature (°C)	18	23	19	23	24	25	20
Number of hot drinks sold	12	8	13	10	9	7	12

(a) On the grid, draw a scatter diagram to show this information. 7 correct plots [2] 14 13 12 Number of 11 hot drinks sold 10 9 8 7 6 0 19 20 21 22 23 24 25 17 18 26 Air temperature (°C) (b) What type of correlation does your scatter diagram show? [1] Practice 5 Negative .[1]

(c) Draw a line of best fitonthegrid

ruled line of best fit within tolerance