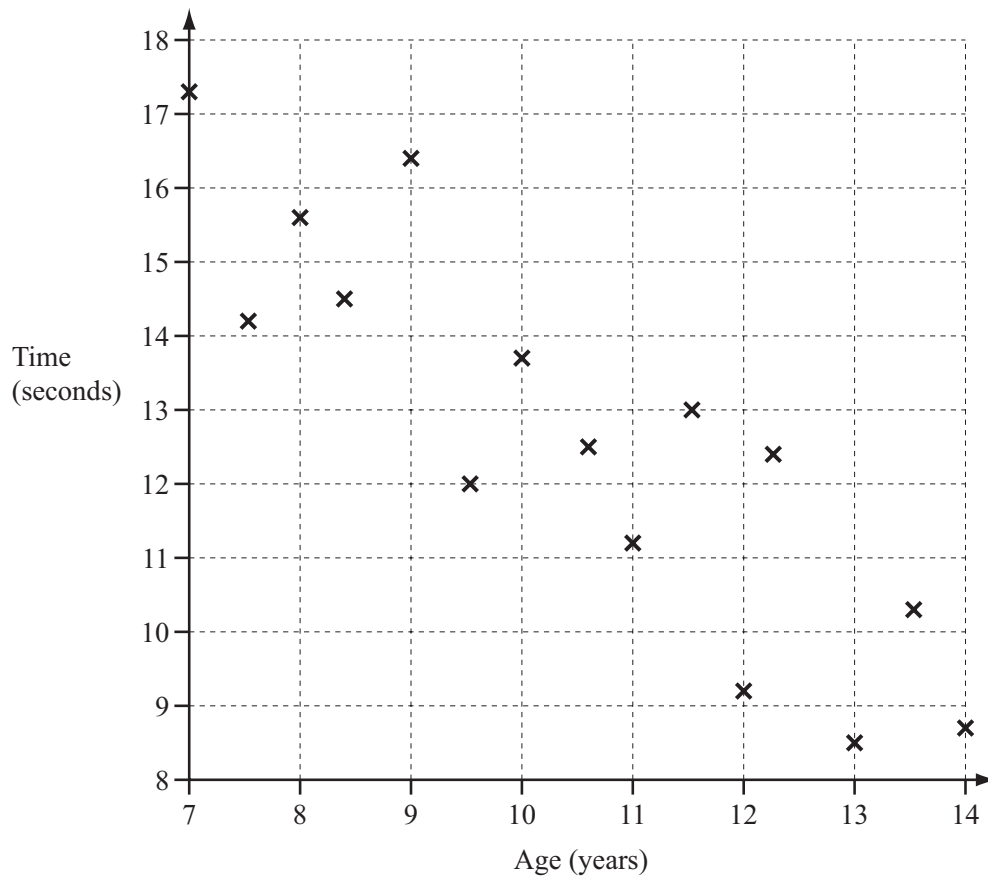


- 11** Fifteen children ran a 60 metre race.
In the scatter diagram below, the time taken is plotted against the age for each child.



(a) Draw a line of best fit on the scatter diagram. [1]

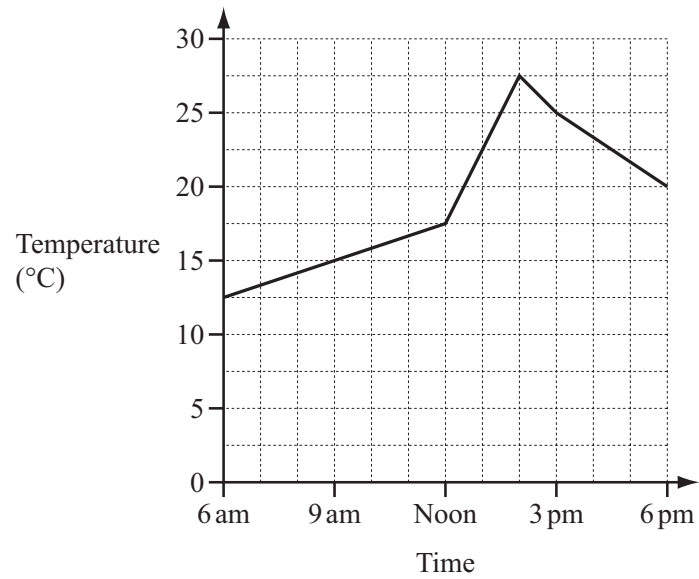
(b) What type of correlation does the scatter diagram show?

Answer(b) [1]

(c) Describe how the times taken change with the ages of the children.

Answer (c) [1]

9



The graph shows the temperature in Paris from 6 am to 6 pm one day.

(a) What was the temperature at 9 am?

Answer(a) °C [1]

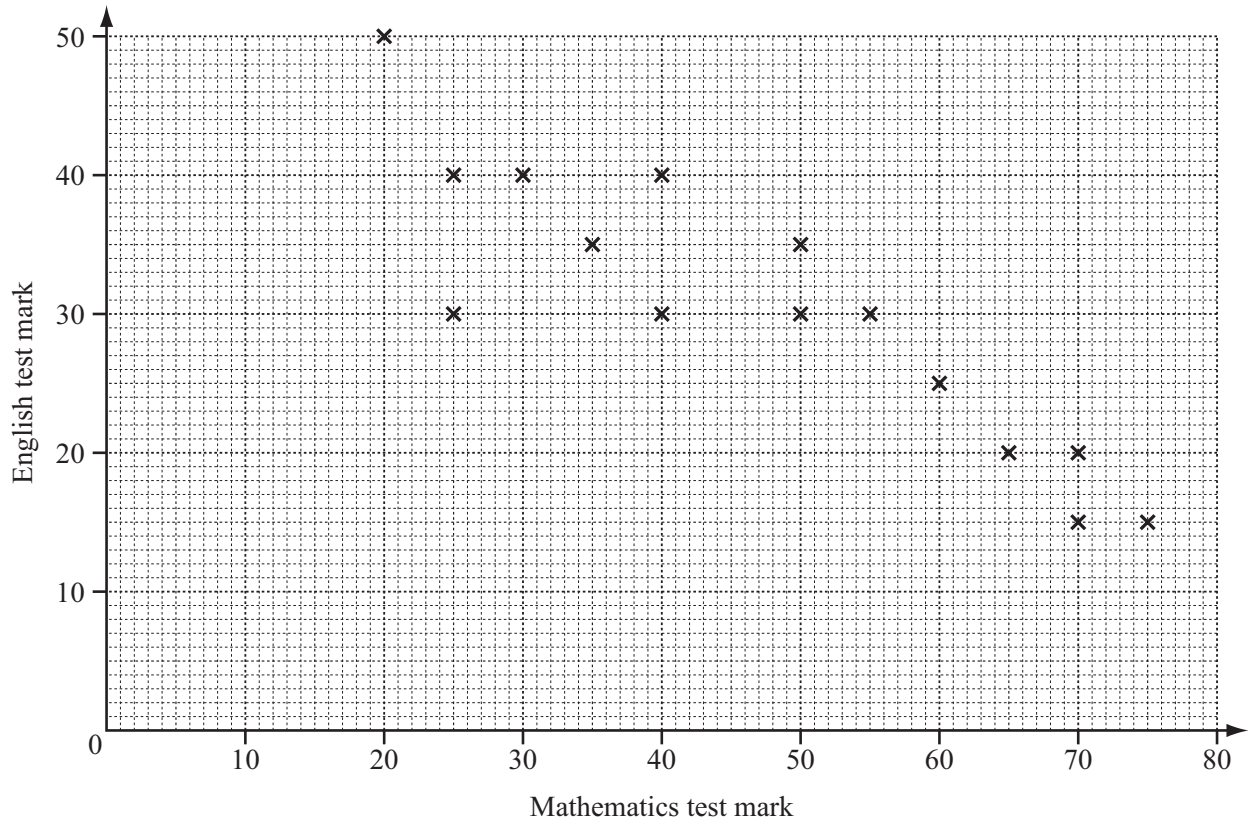
(b) Between which two times was the temperature decreasing?

Answer(b) and [1]

(c) Work out the difference between the maximum and minimum temperatures shown.

Answer(c) °C [1]

15



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.

Answer(a) [1]

(b) The mean for the Mathematics test is 47.3.
The mean for the English test is 30.3.

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. [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.

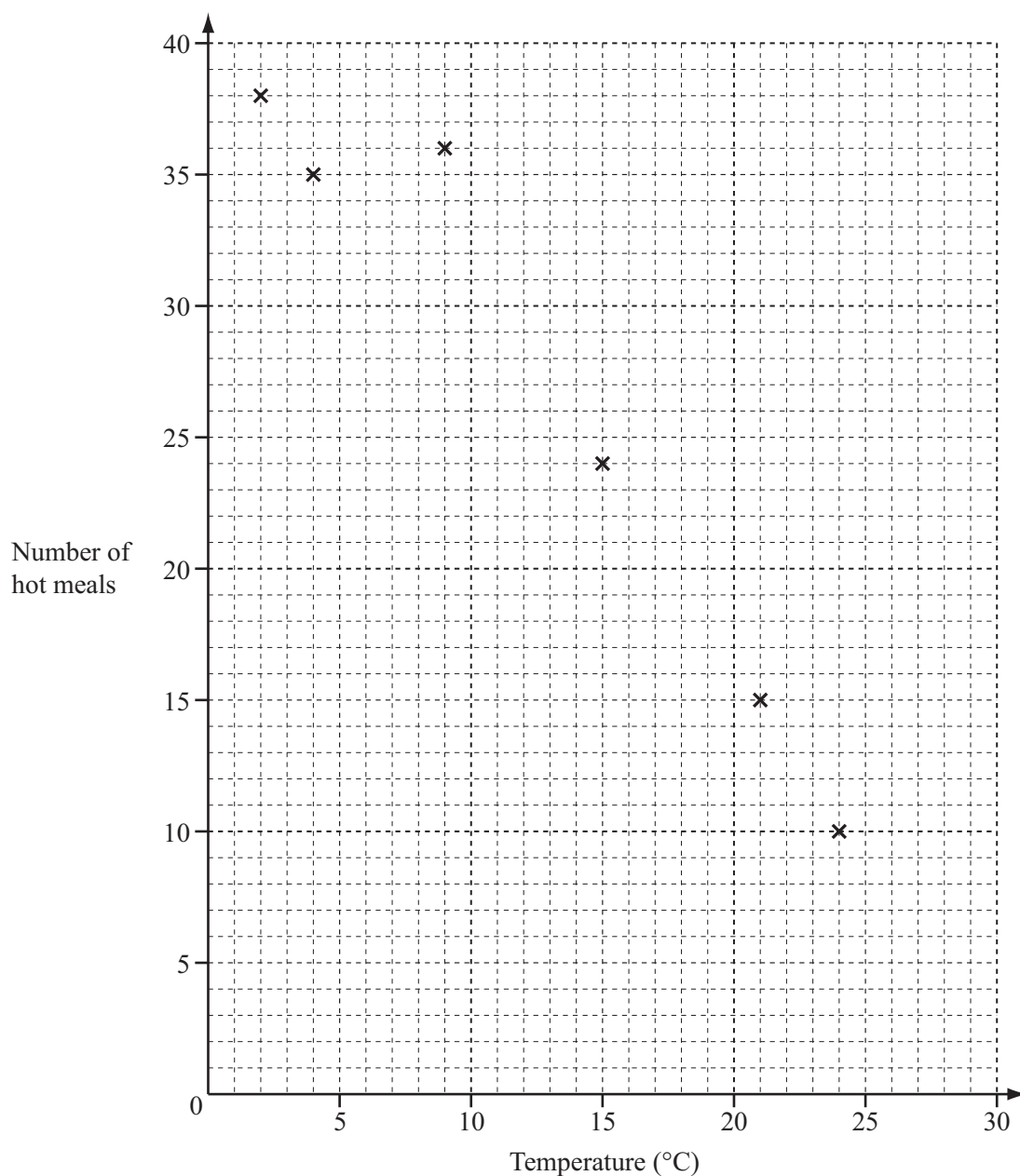
Answer(c)(ii) [1]

Yr9 core mod 5 rev sheet 1

- 18 On the first day of each month, a café owner records the midday temperature ($^{\circ}\text{C}$) and the number of hot meals sold.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature ($^{\circ}\text{C}$)	2	4	9	15	21	24	28	27	23	18	10	5
Number of hot meals	38	35	36	24	15	10	4	5	12	20	18	32

- (a) Complete the scatter diagram.
The results for January to June have been plotted for you.



[2]

- (b) On the grid, draw the line of best fit.

[1]

- (c) What type of correlation does this scatter diagram show?

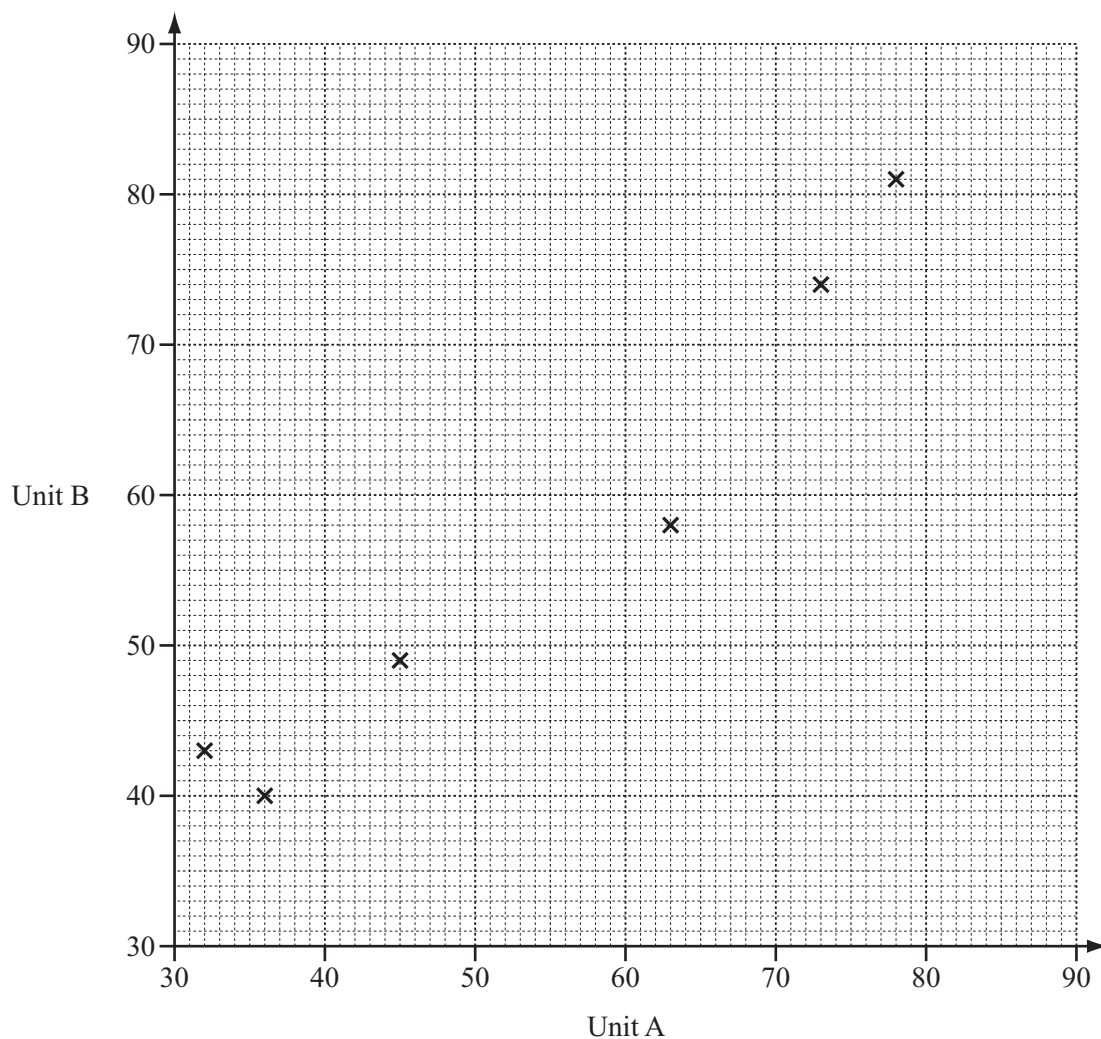
Answer(c) [1]

Yr9 core mod 5 rev sheet 1

- 7 The table shows the marks for ten students in their Chemistry papers for Unit A and Unit B.

Unit A	32	78	45	63	36	73	58	41	68	54
Unit B	43	81	49	58	40	74	60	50	72	59

- (a) On the grid, complete the scatter diagram for these results.
The first six points have been plotted for you.



[2]

- (b) What type of correlation does the scatter diagram show?

Answer(b) [1]