Scatter graphs and correlation

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Name:

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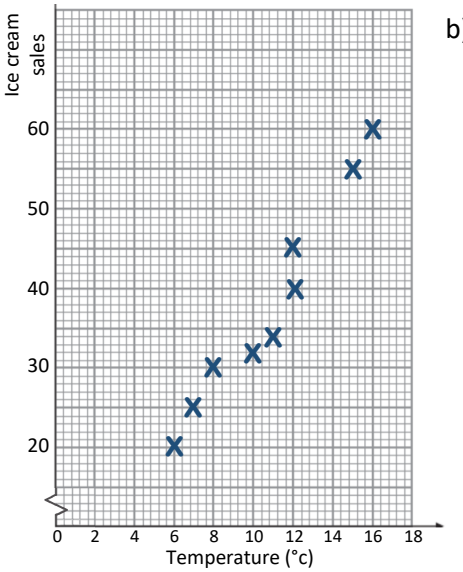
Represent the data in the table as a scatter graph.

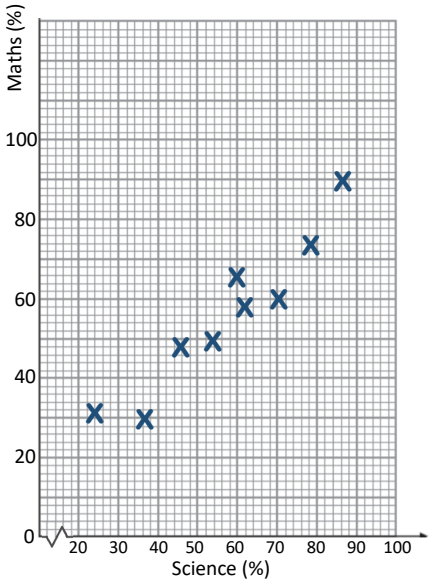
a)

Temp (°C)	Ice cream sales
6	20
10	32
8	30
12	40
11	34
12	45
7	25
16	60
15	55



b)

Science (%)	Maths (%)
60	66
70	60
24	32
86	90
54	50
36	30
46	48
78	74
62	58



Use the scatter graphs shown to answer the questions below:

a) How heavy was the person that measured 155 cm tall? **68kg**

b) How tall was the person that measured 75kg in weight? **160cm**

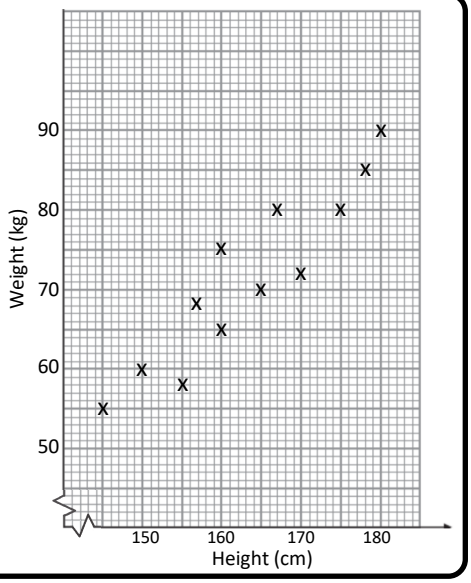
c) 2 people measured 160 cm in height, what was the difference in their weights ? **10kg**

d) How many people measured **over** 160cm tall? **6**

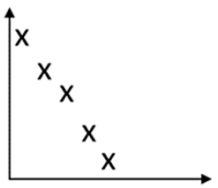
e) How many people measured **under** 75kg in weight? **5**

f) How much taller is the tallest person to the shortest? **35cm**

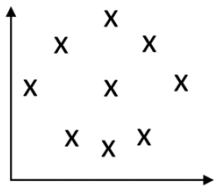
g) How much heavier is the heaviest person to the lightest? **35kg**



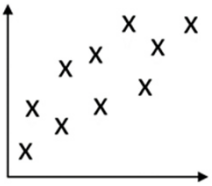
Describe the type of correlation of the following scatter graphs:

a) 

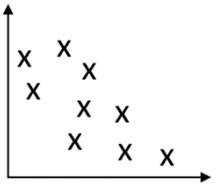
Strong Negative

b) 

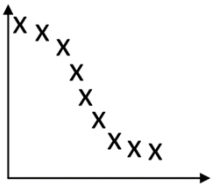
No Correlation

c) 

Weak positive

d) 

Weak negative

e) 

Weak negative

Exam question:

The table shows some data about rainfall and temperature.

Draw a scatter graph for this data.

Temperature (°c)	5	10	30	25	20	15	18
Rainfall (mm)	40	30	2	5	10	25	18