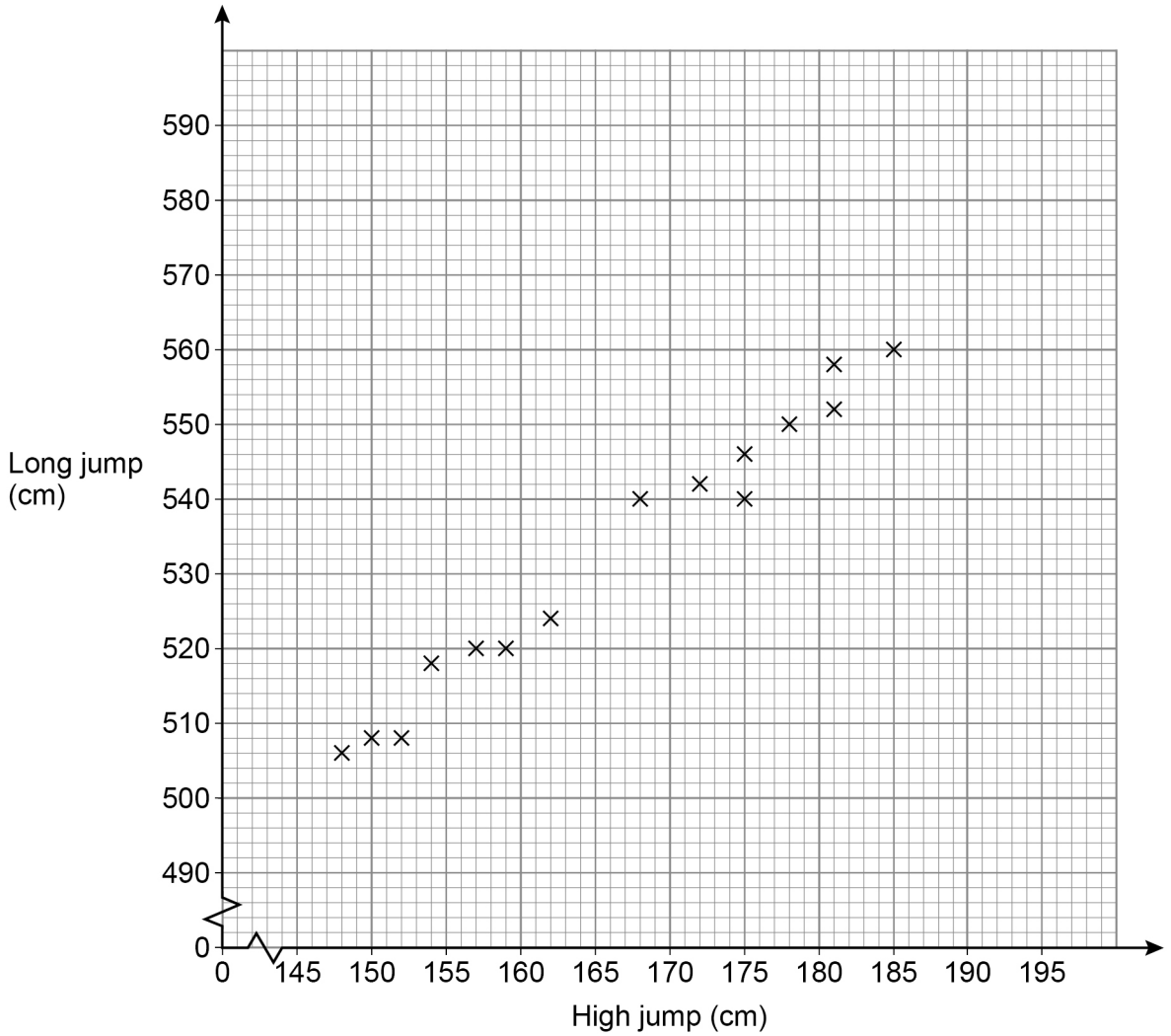
1 The scatter graph shows the best high jump and the best long jump for 15 boys.



1 (a) Write down the type of correlation shown.

[1 mark]

Answer _____

1 (b) Liam has a best high jump of 166 cm

Use a line of best fit to estimate his best long jump.

[2 marks]

Answer _____ cm

1 (c) Another boy has a best high jump of 195 cm

Give a reason why you should **not** use a line of best fit to estimate his best long jump.

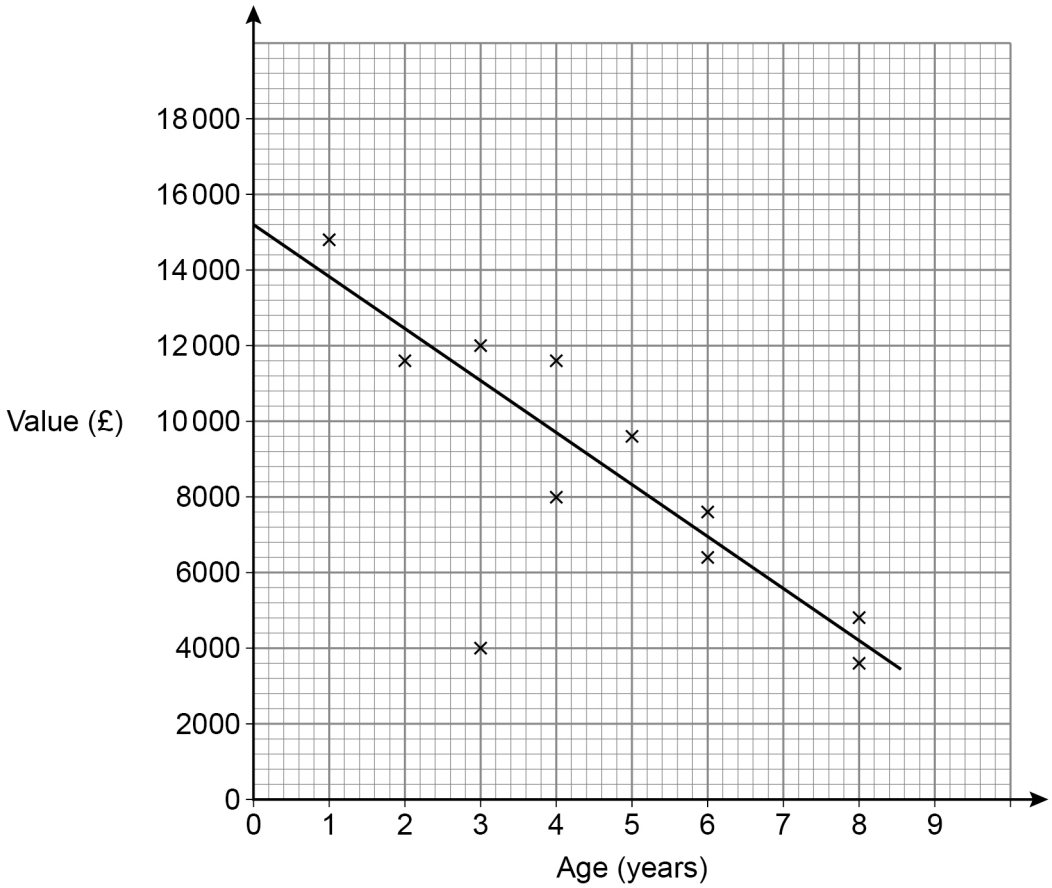
[1 mark]

_____

_____

2 The scatter diagram shows the age and value of some cars in 2019

All the cars were of the same make and model.



2 (a) What type of correlation does the scatter graph show?

[1 mark]

Answer _____

2 (b) Write down the value of the car that was an outlier.

[1 mark]

Answer £ _____

2 (c) Use the graph to estimate the value of a new car of this make and model in 2019

[1 mark]

Answer £ _____

2 (d) A car of this make and model had a value of £5600 in 2019

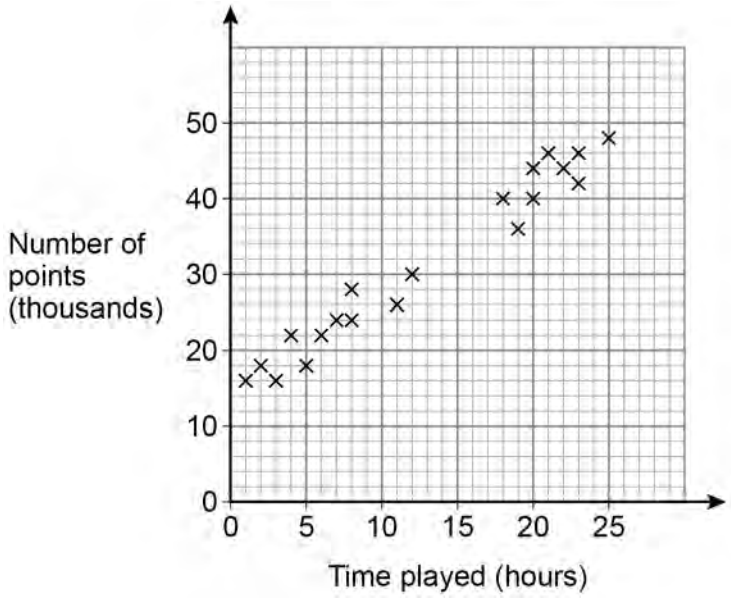
Use the graph to estimate the year in which it was made.

[2 marks]

Answer _____

3 Players score points in a game.

The scatter graph shows the time played and the points scored by some players.



3 (a) Circle the strength and type of correlation shown.

[1 mark]

weak positive strong positive weak negative strong negative

3 (b) Players get one extra life for every 2000 points they score.

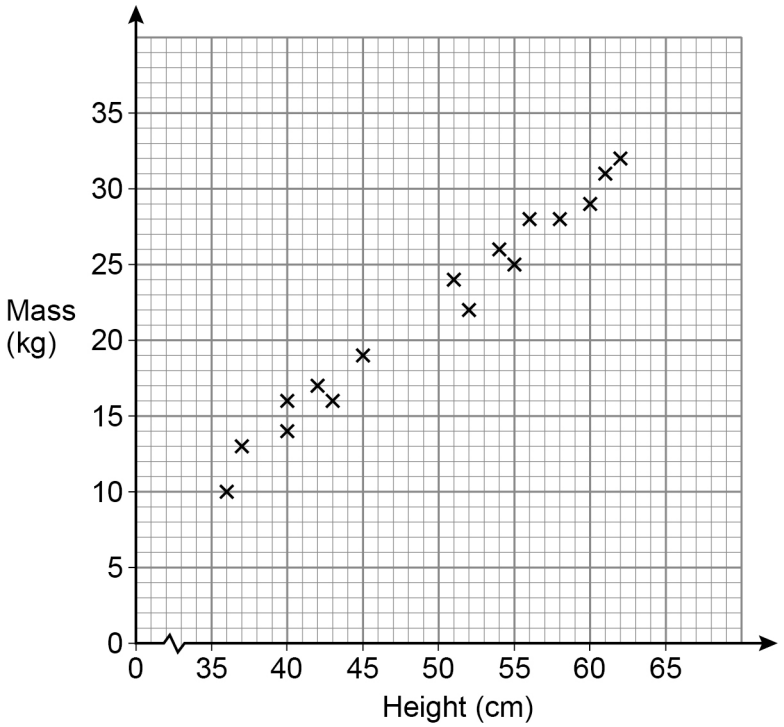
Jonah plays the game for 15 hours.

Use a line of best fit to estimate the number of extra lives he gets.

[3 marks]

Answer _____

4 The scatter graph shows the height and mass of some dogs.



4 (a) The scatter graph shows positive correlation.

Describe the relationship between the height and mass of the dogs.

[1 mark]

4 (b) Use a line of best fit to estimate the mass of a dog with height 48 cm

[2 marks]

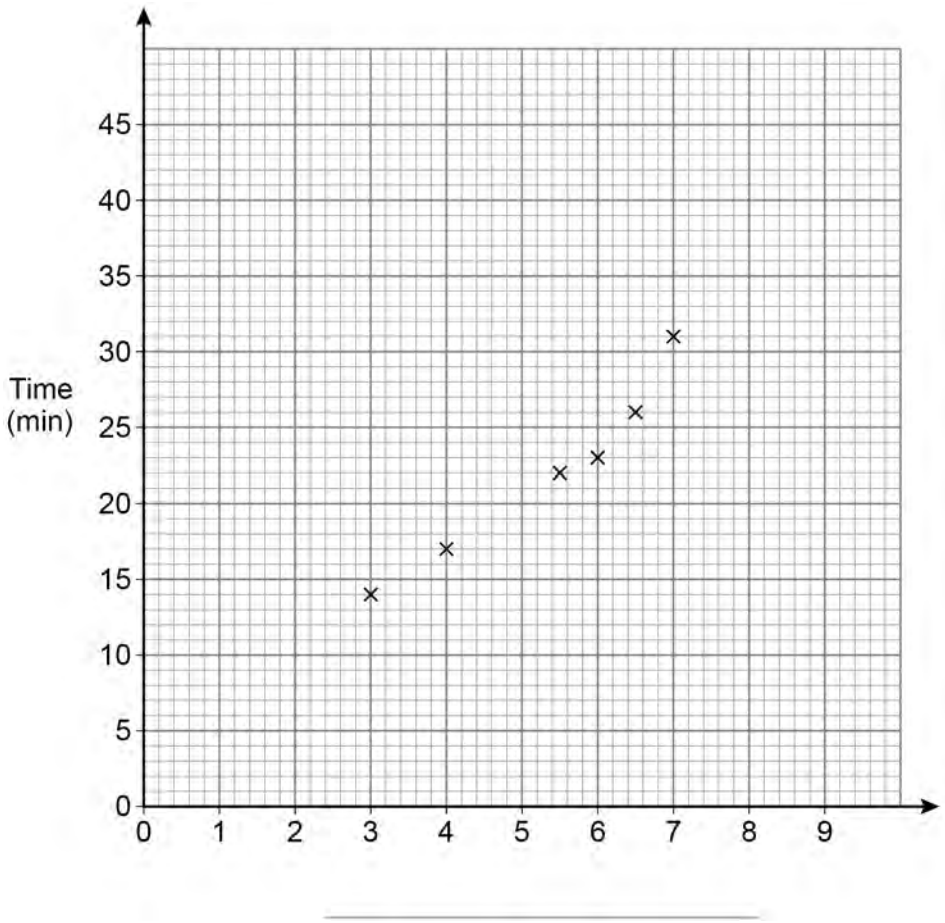
Answer _____ kg

5 Liz records the distance of some runs and the time each run takes.

Distance (km)	3	4	5.5	6	6.5	7	8	8.5
Time (min)	14	17	22	23	26	31	38	42

The scatter graph shows **some** of the information from the table.

Running distances and time taken



5 (a) Complete the graph by adding the missing **label** and plotting the **two** missing points.

[2 marks]

5 (b) Describe the correlation shown in the scatter graph.

[2 marks]

Type of correlation _____

Strength of correlation _____