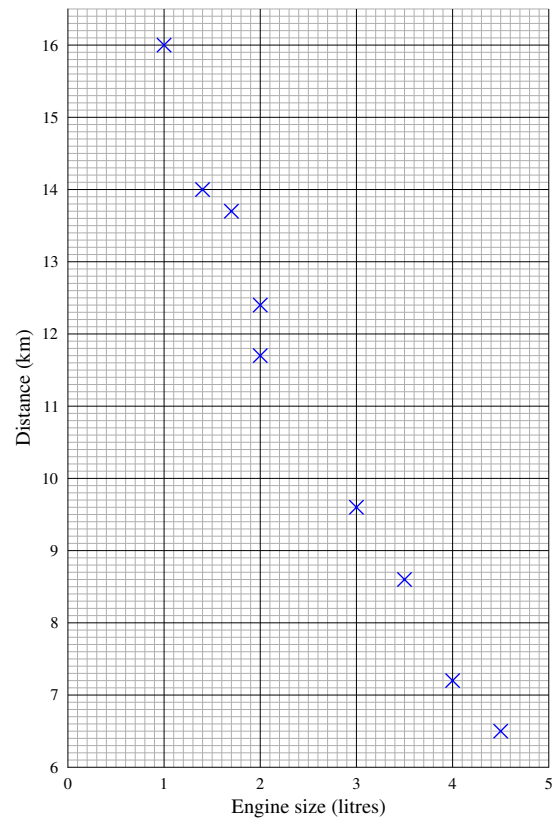


Scatter Graphs

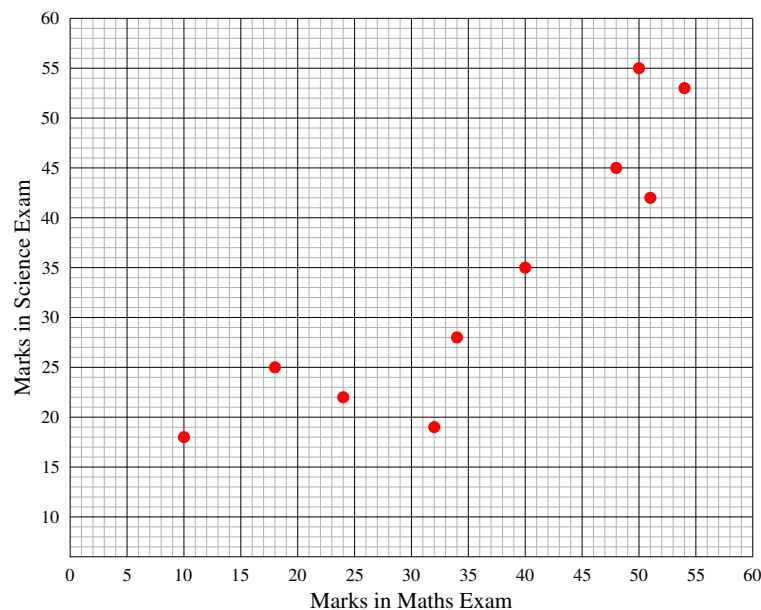


i. The scatter graph shows some information about 9 cars. For each car it shows the engine size, in litres, and the distance, in kilometres, the car travels on one litre of petrol.

- What type of correlation does the scatter graph show?
- Draw a line of best fit for the data on the scatter graph.
- A different car of the same type has an engine size of 2.5 litres. Estimate the distance travelled on one litre of petrol by this car.



ii. Some students took a mathematics test and a science test. The scatter graph shows information about the test marks of ten students



The table shows the test marks of four more students

Mark in mathematics test	14	25	50	58
Mark in science test	21	23	38	51

- On the scatter graph, plot the information from the table.
- Describe the correlation between the marks in the mathematics test and the marks in the science test.

Josef was absent for the mathematics test but his mark in the science test was 45

- Estimate Josef's mark in the mathematics test.