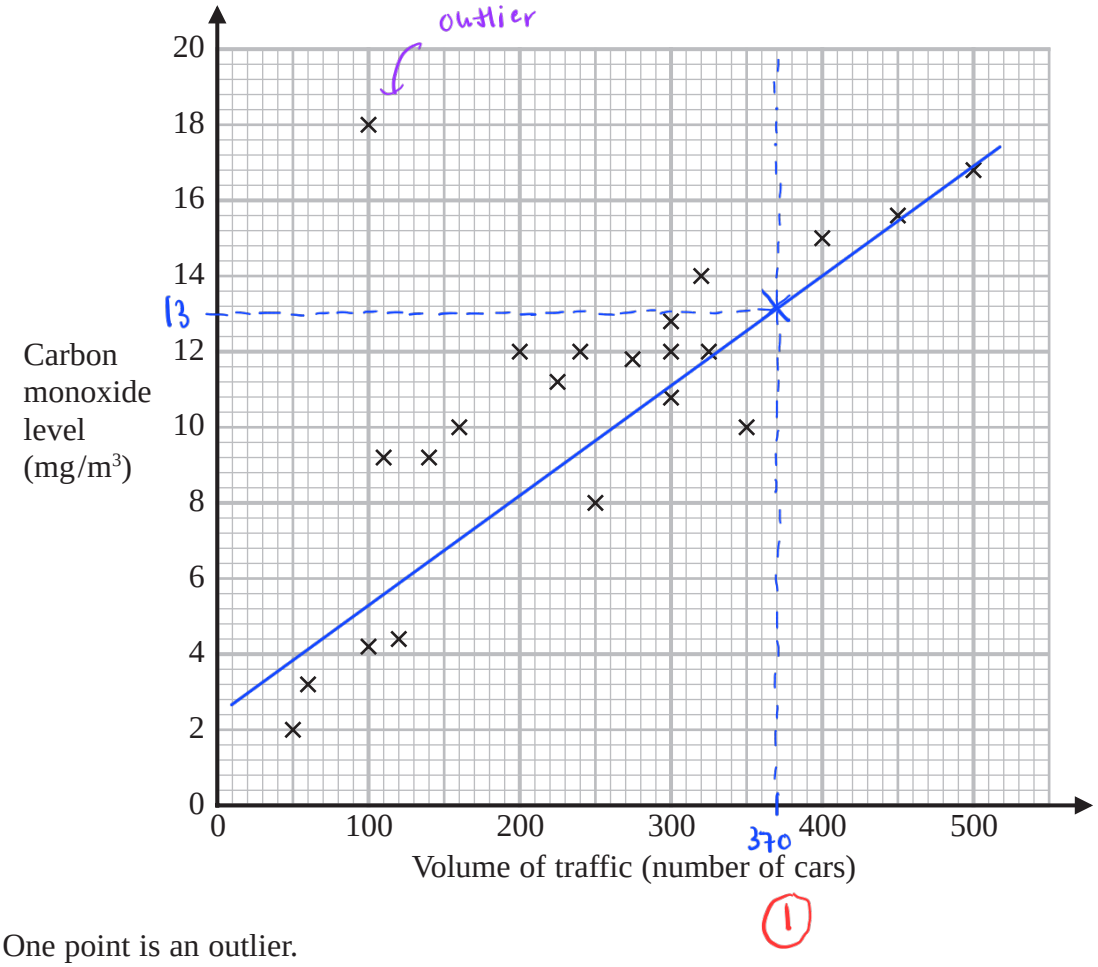
1 The scatter graph shows information about the volume of traffic and the carbon monoxide level at a point on a road each day for 22 days.



One point is an outlier.

(a) Write down the coordinates of this point.

(100 , 18) ①

(1)

For another day, 370 cars pass the point on the road.

(b) Estimate the carbon monoxide level for this day.

① Draw a line of best fit.

② Line up from $x = 370$.

③ Intersection point between line from ① and ② will be the estimation that we need.

13 ① mg/m³

(2)

Alfie says,

"Because there is an outlier, there is no correlation."

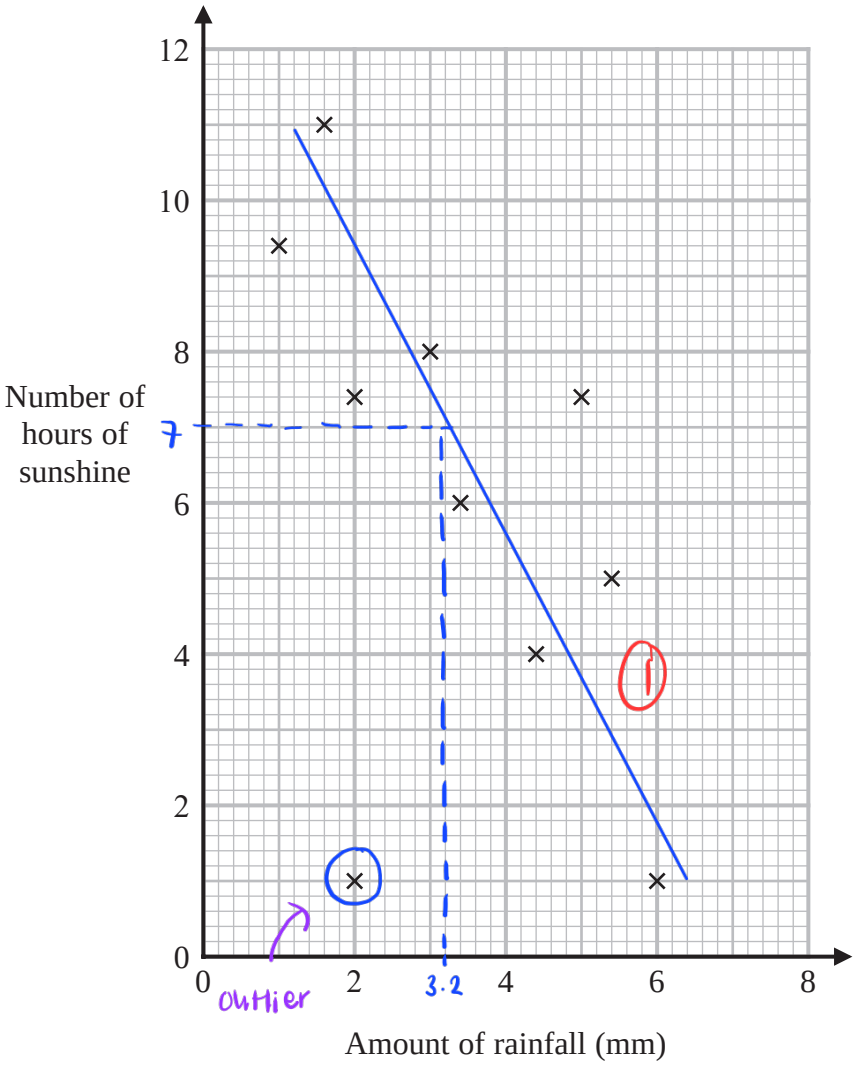
(c) Is Alfie correct?
You must give a reason for your answer.

No. Because outlier does not affect the majority. (1)

(1)

(Total for Question 1 is 4 marks)

2 The scatter graph shows information about the amount of rainfall, in mm, and the number of hours of sunshine for each of ten English towns on the same day.



One of the points is an outlier.

(a) Write down the coordinates of this point.

(2 , 1)

(1)

(b) Ignoring the outlier, describe the relationship between the amount of rainfall and the number of hours of sunshine.

Amount of rainfall decreases as number of hours of sunshine increases (1)

(1)

On the same day in another English town there were 7 hours of sunshine.

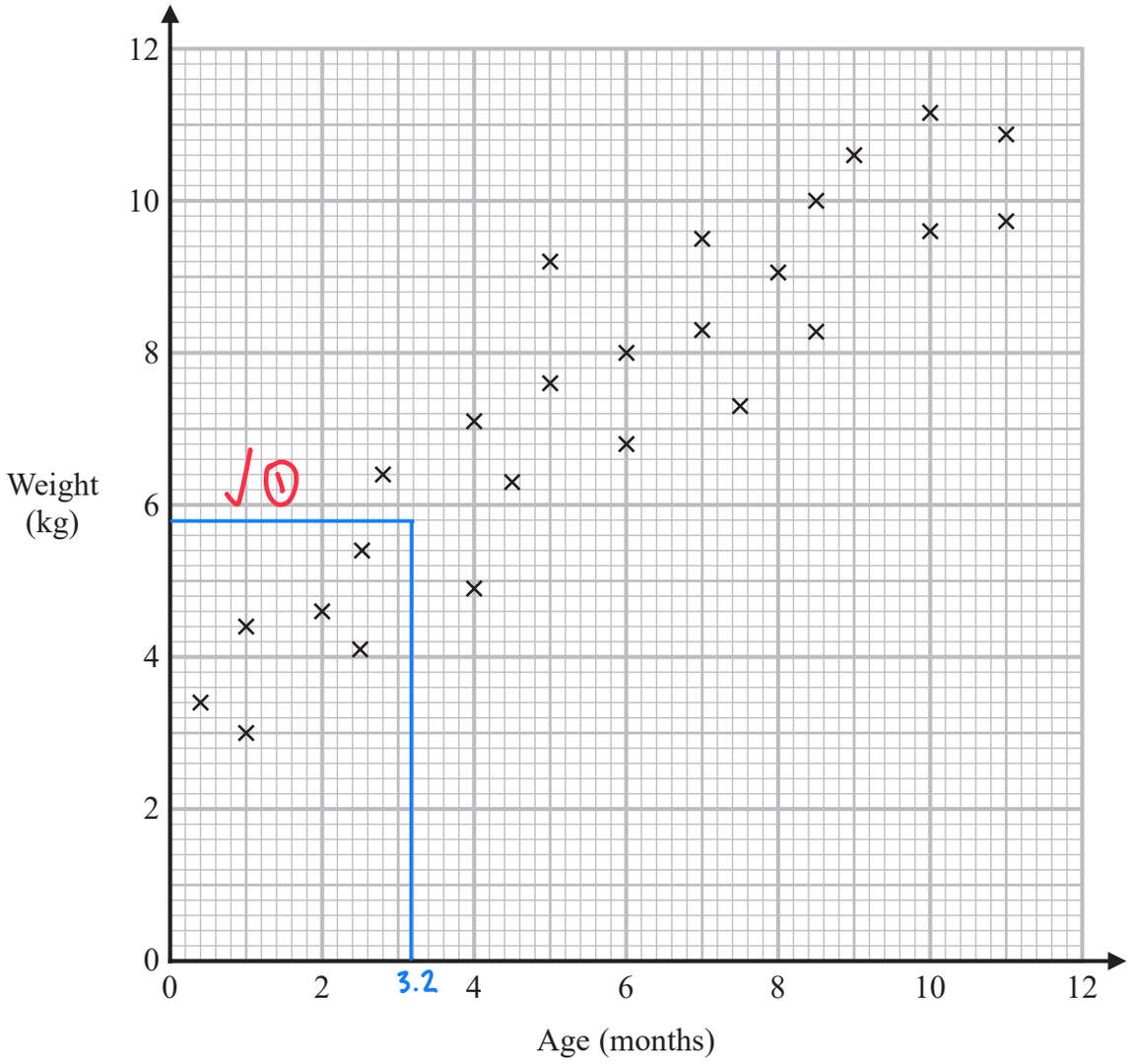
(c) Using the scatter graph, estimate the amount of rainfall in this town on this day.

3.2 (1) mm

(2)

(Total for Question 2 is 4 marks)

3 The scatter graph shows information about the ages and weights of some babies.



(a) Describe the relationship between the age and the weight of the babies.

positive correlation : as age increases, weight also increases ✓1

.....

.....

(1)

Another baby has a weight of 5.8 kg

(b) Using the scatter graph, find an estimate for the age of this baby.

go across from 5.8 kg

3.2 ✓1 ..... months

(2)

(Total for Question 3 is 3 marks)