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Answer BOTH questions.

Write your answers in the spaces provided.

1. Five pairs of students living in South America investigated the numbers of bees visiting grapefruit flowers.

The grapefruit plants were growing in a field close to some rainforest. The students were interested in finding out whether the numbers of bees visiting the flowers were affected by the distance of the plants from the edge of the rainforest.

The first pair of students recorded the total number of visits by bees to the flowers on a branch of a grapefruit plant on the edge of the rainforest for a period of 15 minutes on four separate days.

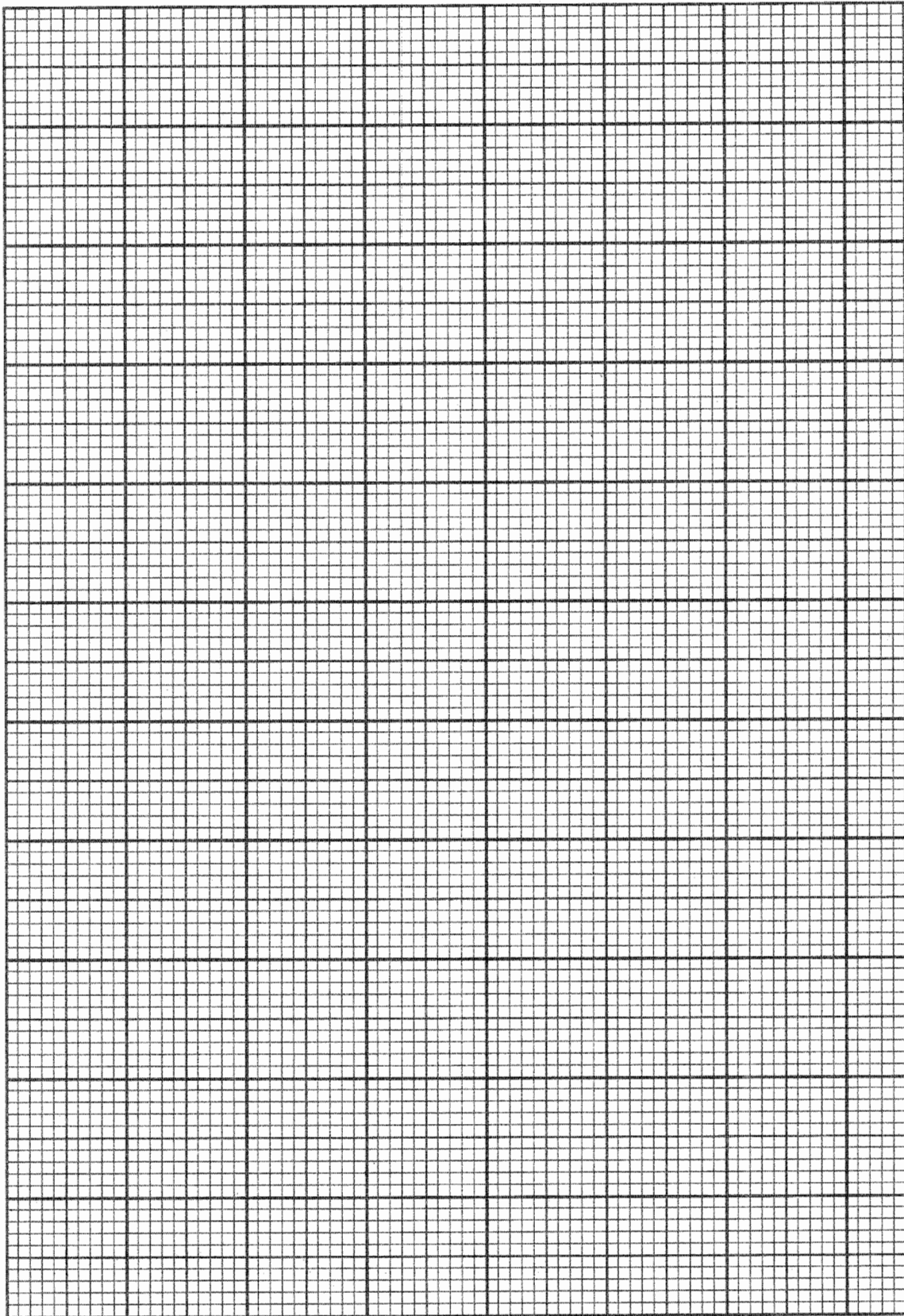
Four other pairs of students repeated this procedure, at the same time on each of the four days, on grapefruit plants that were at different distances from the rainforest edge.

The combined data for the group were compiled by one of the students and a copy of her notes is shown below.

Number of visits in 15 minutes	Day 1	Day 2	Day 3	Day 4
1st Pair on edge of rainforest	10	8	6	9
2nd Pair 10 metres from edge	12	7	3	8
3rd Pair 100 metres from edge	9	9	4	11
4th Pair 500 metres from edge	8	7	3	6
5th Pair 1000 metres from edge	1	1	0	1



(b) Use the information in the table to present the data in a suitable graphical form.



(4)



N 3 0 9 0 6 A 0 5 1 2

(c) Describe the trends and patterns shown by these data.

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(3)

(d) Describe **three** limitations of this investigation that might give rise to unreliable results.

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(3)

(Total 14 marks)

Q1

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