Question 6 (7 marks)

Before a fitness campaign at a high school started, 50 students were chosen at random from each year group and asked the following questions:

Question 1: Which one of the following modes of transport do you use to travel to and from school?

Category A: walking/cycling Category B: public transport Category C: private car

Question 2: Which year group are you in?

The campaign organisers wished to determine whether age group affected the students' likelihood of walking/cycling to and from school.

The results of the survey are shown in the table below.

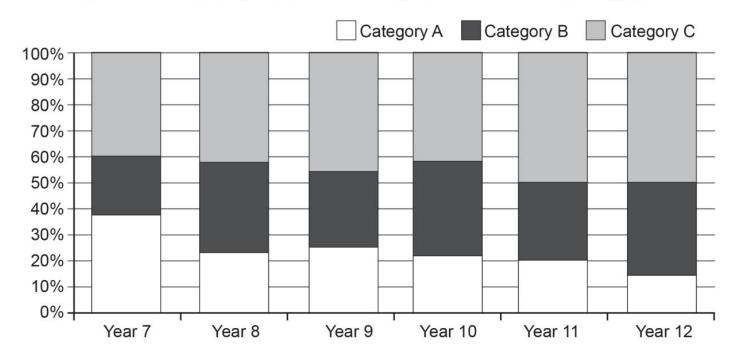
	Category A	Category B	Category C	Total
Year 7	19		20	50
Year 8	12	17	21	50
Year 9	13	14	23	50
Year 10	11		21	
Year 11	10	15	25	50
Year 12	8	17	25	50
Total	73		135	300

(a) Complete the missing entries in the table above.

(2 marks)

(b)	Compare the percentages of students in Year 7 and Year 12 who use Category A as a mode of transport and comment on your results. (2 marks)

The data given in the table for part (a) have been displayed as a divided column graph below.



- (c) Using the graph above or another method, comment on:
  - (i) the association between 'Year group' and 'Category A'.

(1 mark)

(ii) the association between 'Year group' and 'Category C'.

(1 mark)

