

**Question 3****(8 marks)**

An analysis was done on hospital patients based on their age and injuries received from various outdoor activities. The information is displayed below.

		Activity			
		Trampoline	Bike	Skateboard	Total
Age (years)	0–8	150	120	30	300
	9–16	180		90	450
	17–24	120	80		400
	25–32	20			250
Total		470		400	1400

(a) Complete the two-way table above. (2 marks)

(b) Identify the explanatory variable for these data. (1 mark)

(c) The incomplete two-way percentaged table is shown below.

		Activity			
		Trampoline	Bike	Skateboard	Total
Age (years)	0–8	50			
	9–16			20	
	17–24	30			
	25–32		60		
Total					

(i) Show how the value of 20% was calculated. (1 mark)

(ii) Complete the table by using either row percentages **or** column percentages, as appropriate. (3 marks)

(d) State an association that can be observed from the two-way percentaged table. (1 mark)