Question 2 (9 marks)

A computer repair shop recorded the number and types of complaints received from its customers regarding laptop computers with different purchase prices.

		Purchase price			
		Under \$1000	From \$1000 to \$1500	More than \$1500	Total
Complaints	Battery failure	50	50	16	
	Overheating	25			85
	Update failures		70	12	112
	Viruses	45		38	117
	Total	150	200	80	430

(a) Complete the two-way table above.	(3 marks

- (b) The manager of the computer repair shop believes that the purchase price of the laptop computers is being explained by the number and type of complaints.
 - (i) State why this belief is incorrect. (1 mark)

(ii) Identify the response variable for these data. (1 mark)

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

		Purchase price			
		Under \$1000	From \$1000 to \$1500	More than \$1500	Total
Complaints	Battery failure	33.3	25	20	
	Overheating	16.7		17.5	
	Update failures				
	Viruses				
	Total				

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

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