13	Some students at a large school are doing a survey about attitudes to school uniform. They want give a questionnaire to a random sample of 50 students at their school.		t to
		The school has three entrances. Gabi suggests giving the questionnaire to the first 50 students who arrive at a particular entrance on a randomly chosen morning.	
	(a)	Give two reasons why this method of sampling will not produce a random sample.	[2]
	stuc The	e students are also doing a survey about attitudes to school lunches. Jane claims that 30% of dents think the lunches are satisfactory. Dev claims that the true percentage is less than 30%. E students decide to test Jane's claim by taking a random sample of 50 students and noting the other who think the lunches satisfactory.	
	Out	of the 50 students in the sample, 9 said that they thought the lunches are satisfactory.	
	(b)	Using a binomial distribution as a model, test Jane's claim against Dev's claim at the 5% significance level.	[7]
	(c)	The sample used by the students was taken without replacement. One student suggests that this means that one of the assumptions underlying the model is not valid.	
		Explain whether you agree with this statement.	[1]