11	Casey and Riley attend a large school. They are discussing the music preferences of the students at their school. Casey believes that the favourite band of 75% of the students is Blue Rocking. Riley believes that the true figure is greater than 75%.			IS
		They plan to carry out a hypothesis test at the 5% significance level, using the hypotheses I_0 : $p = 0.75$ and H_1 : $p > 0.75$.		
		They choose a random sample of 60 students from the school, and note the number, X , who say that their favourite band is Blue Rocking.		
	The	They find that $X = 50$.		
	(a)	(a) Assuming the null hypothesis to be true, Riley correctly calculates that $P(X = 50) = 0.0407$, correct to 3 significant figures.		
		Riley says that, because this value is less than 0.05, the null hypothesis should be rejected.		
		Exp	plain why this statement is incorrect.	[1]
	(b) Carry out the test.		[5]	
	(c)	(i)	State which mathematical model is used in the calculation in part (b), including the value(s) of any parameter(s).	[1]
		(ii)	The random sample was chosen without replacement.	
			Explain whether this invalidates the model used in part (b).	[1]