1. (a)	Give two reasons to	iustify the use	of statistical	models.
- • (u)	Of the two reasons to	justify the use	or statistical	mouch

(2)

It has been suggested that there are 7 stages involved in creating a statistical model. They are summarised below, with stages 3, 4 and 7 missing.

- Stage 1. The recognition of a real-world problem.
- Stage 2. A statistical model is devised.
- Stage 3.
- Stage 4.
- Stage 5. Comparisons are made against the devised model.
- Stage 6. Statistical concepts are used to test how well the model describes the real-world problem.

Stage 7.

(b) Write down the missing stages.

(3)

(Total 5 marks)

Edexcel Internal Review 1

S1 Sampling methods

1.	(a)	Used to so Cheaper more ease To impro Used to possed to	any two lines B1	2		
		1 st B1	For	one line		
		2 nd B1				
	(b)	(3 or 4)	Model used to make predictions. (Idea of predicted values based on the model) (Experimental) data collected		B1	
		(4 or 3)			B1	
		(7) Mo		del is refined.		3
		1 st & 2 nd B1 1 st B1 2 nd B1 3 rd B1		These two points can be interchanged. Idea of values from (experimental) data and predvalues based on the model.	dicted	
				for predicted values from model e.g. "model used to gain suitable data"		
				for data collected. Idea of experimental data but "experiment" needn't be explicitly seen		
				This should be stage 7. Idea of refinement or revision or adjustment		

[5]

Edexcel Internal Review 2

1. Despite the unusual nature of this question it was encouraging to see most candidates having a reasonable stab at answering it. Most could come up with a reason or two in part (a) "quicker and cheaper" being the most common answer for 1 mark. In part (b) there were many good answers and a number of candidates realized that experimental data was needed at some stage and that the model may need refinement.

Edexcel Internal Review 3