Question			Answer	Marks	AO	Guidance
12	(a)		H_0: $p = 0.08$ **and** H_1: $p < 0.08$	**B1**	**1.1**	Requires both. Can be stated in words. NOTE: $H_0 = 0.08$ etc is B0

Question			Answer	Marks	AO	Guidance
			p is the **probability** that a person selected at random has **blue eyes**	**B1**	**2.5**	Accept '**proportion**' instead of probability but not number/amount etc. Must have highlighted words to score B1 here
				[2]		
12	**(b)**		0.057(43…) **BC**	**B1**	**1.1**	By calculator- awrt 0.057
				[1]		
12	**(c)**		0.057 > 0.05 A CR approach is possible here too where the CR is $X \leq 2$ then '3 not in CR' etc.	**M1**	**3.4**	their 0.057 correctly compared with 0.05 NOTE: comparing p (X = 3) = 0.03849 with 0.05 scores 0 in part (c)
			do not reject H_0 or accept H_0 or reject H_1	**M1**	**1.1**	FT consistent conclusion with their probability
			insufficient evidence to **suggest** that the **probability** that a person selected at random has blue eyes is **less than** 0.08 **OR** **insufficient evidence** to **suggest** that the **probability** that a person selected at random has blue eyes **has decreased.** **OR** **insufficient evidence** to **support the medical researchers' belief.**	**A1**	**2.2b**	Highlighted words needed. Must be a full contextual conclusion. Accept proportion instead of probability but NOT number/amount. No assertive statements e.g. conclusions with 'shows that' or 'proves that' etc score A0 Accept 'not enough evidence' for 'insufficient evidence'. The researcher believed the true probability was less than 0.08 in the question so accept this equivalent statement.
				[3]		