Question			Answer	Marks	AOs	Guidance	
12			use of contingency table or Venn diagram or P(A or B) = P(A) + P(B) – P(A and B)	**M1**	**3.1b**	0.56, 0.8 and 0.14 must be correctly placed; eg 1 – 0.14 = 0.56 + 0.8 – P(A and B)	where A denotes "passing" maths and B denotes "passing" English
			P(A and B) = 0.5	**A1**	**2.1**		
			P(A) × P(B) = 0.56 × 0.80	**M1**	**1.1**	or P(A/B) = $\frac{0.5}{0.80}$	the first **M1A1** may be awarded for working with percentages
			= 0.448 seen	**A1**	**1.1**	= 0.625 or ⅝ seen	
			0.448 ≠ 0.5 or 0.56 × 0.80 ≠ 0.5 so not independent	**A1** **[5]**	**3.2a**	0.625 or ⅝ ≠ 0.56	allow equivalent argument based on showing A' and B' not independent