

Question			Answer	Marks	AO	Guidance
16	(a)		$0.16 \times 0.84 \times 2$ or $B(2, 0.16)$ or $B(2, 0.84)$ seen or $1 - (0.84^2 + 0.16^2)$	M1	1.1	condone omission of 2
			$\frac{168}{625}$ or 0.2688 or 0.269 or 0.27 cao	A1	1.1	allow recovery from bracket error mark the final answer allow SC1 for correct answer unsupported
				[2]		
16	(b)		$0.75 - 0.66 = 0.09$ $[0.16 - 0.09 =] 0.07$ isw	M1	3.1a	allow 0.09 embedded in correct place in Venn diagram or contingency table; allow M1 for 9%
				A1	1.1	allow SC1 for correct answer unsupported
				[2]		
16	(c)		$\frac{0.09}{0.75}$ 0.12	M1	3.1a	M0 for 0.12 from wrong working
				A1	1.1	allow SC1 for correct answer unsupported
				[2]		
16	(d)		$0.12 \neq 0.16$ so not independent	M1	2.1	
				A1	2.2a	if M0 allow SCB1 for $0.16 \times 0.75 \neq 0.09$ so not independent
				[2]		