Ques	tion	Scheme	Marks	AOs	
4 (a)		P (not square number) × P (even number) = $\frac{3}{4} \times \frac{1}{2}$ (o.e)	M1	1.1b	
		$=\frac{3}{8}*$	A1*	2.1	
			(2)		
(b)	s 1 2 3 4 P(S = s) $\frac{1}{4}$ $\frac{3}{8}$ $\frac{3}{16}$ $\frac{3}{16}$	B1 B1	2.1 1.1b	
			(2)		
(c)		$\frac{3}{8} + "\frac{3}{16}" = \frac{9}{16}$	B1ft	1.1b	
			(1)		
				(Total 5 marks)	
Notes:					
(a)	M1	Correct method for finding $P(S = 2)$			
	A1*	$\frac{3}{8}$			
(b)	B1	At least one correct probability for $S = 3$ or $S = 4$			
	B1	Fully correct table. Accept different letters for <i>S</i> .			
(c)	B1ft	For $\frac{3}{8}$ + their probability for $S = 3$ evaluated correctly, ft their P($S = 3$) < $\frac{5}{8}$			