Question	Answer	Marks	Guidance
(a)	$[P(>2) = 1 - P(0,1,2) =]$ $1 - (^{7}C_{0} \ 0.18^{0} \ 0.82^{7} + ^{7}C_{1} \ 0.18^{1} \ 0.82^{6} + ^{7}C_{2} \ 0.18^{2} \ 0.82^{5})$	M1	One term ${}^{7}C_{x} p^{x} (1-p)^{7-x}, 0$
	= 1 - (0.249285 + 0.383048 + 0.252251) = 1 - 0.88458	A1	Correct unsimplified expression or better Condone omission of brackets if recovered
	0.115	B1	WWW. $0.115 \le p < 0.1155$ not from wrong working
		3	
(b)	[P(at least 1 day of rain) = $1 - P(0) = 1 - (0.82)^7 = 0.7507$	B1	AWRT 0.751 seen
	[P(exactly 2 periods) =] $0.7507^2 \times (1 - 0.7507) \times 3$	M1	FT their $1 - p^7$ or their 0.7507 if identified, not 0.18, 0.82 Accept $\times$ <sup>3</sup> C <sub>r</sub> , r=1,2 or $\times$ <sup>3</sup> P <sub>1</sub> for $\times$ 3 Condone $\times$ 2
	0.421	A1	Accept $0.421 \le p \le 0.4215$ <b>SC B1</b> if $0/3$ scored for final answer only $0.421 \le p \le 0.4215$
		3	