1	The score when two fair six-sided dice are thrown is the sum of the two numbers on the upper faces.		
	(a)	Show that the probability that the score is 4 is $\frac{1}{12}$. [1]	
		two dice are thrown repeatedly until a score of 4 is obtained. The number of throws taken is oted by the random variable X .	
	(b)	Find the mean of X . [1]	
	(c)	Find the probability that a score of 4 is first obtained on the 6th throw. [1]	
	(d)	Find $P(X < 8)$. [2]	