Question Number	Scheme	Marks
1 (a)	[E(X) =] 3	B1
		(1)
(b)	$\left[\mathrm{E}(X^2) = \sum x^2 \mathrm{P}(X = x) =\right] 1^2 \times \frac{1}{5} + 2^2 \times \frac{1}{5} + 3^2 \times \frac{1}{5} + 4^2 \times \frac{1}{5} + 5^2 \times \frac{1}{5}$ or $[\mathrm{E}(X^2) = \mathrm{Var}(X) + \mathrm{E}(X)^2 =] \frac{5^2 - 1}{12} + 3^2 [= 2 + 9]$	M1
	$\left[\mathrm{E}(X^2) =\right] 11$	A1
		(2)

	Notes	Total 3
(a)	**B1**	cao Do not isw if they divide by 5 again after achieving 3
(b)	**M1**	for a correct method to find $\mathrm{E}(X^2)$ using $\sum x^2 \mathrm{P}(X = x)$ Condone one omission. May be implied by 11 provided it is not an intermediate answer to an incorrect method to finding $\mathrm{E}(X^2)$ Condone further work attempting to use 11 to find Var(X) for this mark Alternatively score for use of $\mathrm{E}(X^2) = \mathrm{Var}(X) + \mathrm{E}(X)^2$ May be implied by 2+'3'^{2}
	A1	cao (correct answer with no incorrect working 2/2) do not isw if they divide by 5 again or they proceed to find Var(X)