

- 2 A random variable X has the probability distribution shown in the following table, where p is a constant.

x	-1	0	1	2	4
$P(X = x)$	p	p	$2p$	$2p$	0.1

- (i) Find the value of p . [1]

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- (ii) Given that $E(X) = 1.15$, find $\text{Var}(X)$. [2]

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