

- 1** A competitor in a throwing event has three attempts to throw a ball as far as possible. The random variable X denotes the number of throws that exceed 30 metres. The probability distribution table for X is shown below.

x	0	1	2	3
$P(X = x)$	0.4	p	r	0.15

- (a) Given that $E(X) = 1.1$, find the value of p and the value of r . [3]

[illegible]

- (b) Find the numerical value of $\text{Var}(X)$. [2]

[illegible]