All t	rma knows that she has 3 tins of carrots, 2 tins of peas and 2 tins of sweller tins are the same shape and size, but the labels have all been remove what each tin contains.		
	rma wants carrots for her meal, and she starts opening the tins one at a time, chosen randomles he opens a tin of carrots. The random variable $X$ is the number of tins that she needs to open		
(a)	Show that $P(X = 3) = \frac{6}{35}$ .		
<b>(b)</b>	Draw up the probability distribution table for $X$ .		

(c)	Find $Var(X)$ .	[3]