10	(a)	Write down and simplify the first four terms in the expansion of $(x+y)^7$ .		
		Give your answer in ascending powers of $x$ .	[2]	
	<b>(b)</b>	Given that the terms in $x^2y^5$ and $x^3y^4$ in this expansion are equal, find the value of $\frac{x}{y}$ .	[2]	
	(c)	A hospital consultant has seven appointments every day. The number of these appointments which start late on a randomly chosen day is denoted The variable $L$ is modelled by the distribution $B(7, \frac{3}{8})$ .	e appointments which start late on a randomly chosen day is denoted by $L$ . odelled by the distribution $B(7, \frac{3}{8})$ .	
		Show that, in this model, the hospital consultant is equally likely to have two appointment start late or three appointments start late.		