7 **(a)** A 5-character password is to be formed from the following 13 characters.

Letters	A	B	C	D	E
Numbers	9	8	7	6	5
Symbols	*	#	!		

No character may be used more than once in any password.

(i) Find the number of possible passwords that can be formed. [1]

(ii) Find the number of possible passwords that contain at least one symbol. [2]

(b) Given that $16 \times {}^{n}\mathrm{C}_{12} = (n-10) \times {}^{n+1}\mathrm{C}_{11}$, find the value of n. [3]

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