Question	Answer	Marks	Guidance
(a)	$^{12}\text{C}_4 \times 2$	M1	$gC_4 \times h$ $g = 12, 13, h = 1,2$
	990	A1	
	Alternative method for question (a)		
	[total – both on – neither on] ${}^{14}C_5 - ({}^{12}C_3 + {}^{12}C_5) = [2002 - 220 - 792]$	M1	${}^{k}C_{5} - ({}^{a}C_{3} + {}^{a}C_{5})$ a = 12, 13  and  k = 13, 14
	990	A1	
		2	
(b)	[Mrs Lan plus] $2W \ 2M  {}^{7}C_{2} \times {}^{6}C_{2} = 315$ $3W \ 1M  {}^{7}C_{3} \times {}^{6}C_{1} = 210$ $4W  {}^{7}C_{4} = 35$	M1	$^{7}C_{r} \times {}^{6}C_{4-r}$ for $r = 2, 3$ or 4
		B1	Outcome for one identifiable scenario correct, accept unevaluated
		M1	Add outcomes for 3 identifiable correct scenarios Note: if scenarios not labelled, they may be identified by seeing ${}^{7}C_{r} \times {}^{6}C_{s} r + s = 4$ to imply $r$ women and $s$ men for both <b>B</b> & <b>M</b> marks only
	[Total =] 560	A1	
		4	