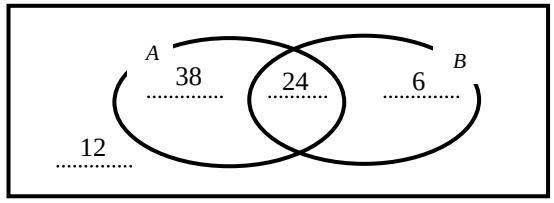
15	eg $(2m + 1)(2n + 1)$ or eg $(2m - 1)(2n + 3)$		4	M2	Product of 2 <u>different</u> odd numbers (in the form $2n + k$ where k is odd). Must have different letters/variables. (M1 for the product of same or different odd numbers where the variable is the same eg $(2n + 1)(2n - 1)$ or $(2n + 1)(2n + 3)$)
	eg $4mn + 2m + 2n + 1$ or eg $4n^2 + 4n + 1$ or eg $4n^2 - 1$ or eg $4n^2 + 8n + 3$			M1	dep M1 Multiplying out the two brackets with odd numbers correctly.
	eg $2(2mn + m + n) + 1$ therefore odd	Proved		A1	dep M3 Factorising <u>and</u> a conclusion **or** stating that the 3 leading terms are all even, hence result is odd.
					Total 4 marks

16 (a)		12, 38, 24, 6	2	B2	B2 for all 4 correct values, in correct regions. B1 for 2 or 3 correct values in correct regions
(b) (i)		$\frac{24}{80}$ oe	1	B1ft	0.3 ft their 24
(ii)	eg 62 + "12" or 80 – "6" oe		2	M1ft	A complete method to find the number of elements in the required set.
		$\frac{74}{80}$ oe		A1 ft	0.925 Penalise incorrect probability notation once only
					Total 5 marks