

Question			Answer	Marks	AO	Guidance
4	(a)		${}^{12}C_5 a^7 b^5$ oe	B1 [1]	1.2	Any equivalent form e.g. $\binom{12}{5} a^7 b^5$, $\binom{12}{7} a^7 b^5$, $792 a^7 b^5$ isw incorrect attempts to evaluate
4	(b)	(i)	$a + b = 1$	B1 [1]	1.2	Accept in words e.g. “ a and b must add up to 1”
4	(b)	(ii)	B(12, b) or Binomial, 12 trials, P(success) = b	B2 [2]	3.3 3.3	B1 for B or Binomial and $n = 12$, e.g. B(12, a) scores B1B0 B1 for $p = b$ or $p = 1 - a$