8	(a)		Symmetrical, high in middle, tails off at ends	**B1** **[1]**	2.4	Any two of these	Not just bell shaped
8	(b)	(i)	$P(35 < m < 45) = 0.296$ Predicted no. $= 30$	**M1** **A1** **[2]**	3.4 1.1	Correct probability attempted Allow 29.6 or '29 or 30'	
8	(b)	(ii)	$P(m < 25) = 0.0122$ Predicted no. $= 1$	**M1** **A1** **[2]**	3.4 1.1	Correct probability attempted Allow 1.2 or '1 or 2'	
8	(c)		29.6 close to 29 and 1.2 close to 0 Hence model (could be) suitable	**B1** **[1]**	3.5a	Both needed	**OR B1** Model predicts some masses below 25 g, hence not suitable
8	(d)		E.g. Weather may cause different distribution	**B1** **[1]**	3.5b	Any sensible reason why next year may be different	