Question		Answer	Marks	AOs		Guidance
15		$\mu = 35$ soi	B 1	1.2	by symmetry	
		$\sigma = 4$ seen	B1	3.1b	35 - 31 = 4	may be embedded in $N(35 4^2)$ or $N(35 16)$
		use of N(35, 4^2) to obtain a value for P(30 < <i>X</i> < 40)	M1	2.1		M0 if continuity corrections used
		[cdfNormal(30, 40, 35, 4) =] 0.788700 BC to 2 or more dp	A1	1.1		
		use of $Y \sim B(50)$, their 0.7887) to find $P(Y \le K)$ or $P(Y \ge K)$	M1	3.1b	eg cdfBinomial(50,0.7887,45,50)	their 0.7887 must be from use of $N(35, 4^2)$
		$[1 - P(Y \le 44)] = 0.032$ to 0.034 BC	A1	1.1		
			[6]			