

SMA0/02: AS Paper 2 Part A Statistics Mark scheme

Question	Scheme	Marks	AOs
1(a)	$[Q_2 =] (5 +) \frac{12}{15} \times 5$	M1	1.1a
	$= 9$ or $(\text{use of } (n+1)) (5 +) \frac{12.5}{15} \times 5$	A1	1.1b
	or 9.166... awrt 9.17	(2)	
(b)	$[s_x =] \sqrt{\frac{5675}{30} - \left(\frac{355}{30}\right)^2} = \sqrt{49.14...}$	M1	1.1a
	= awrt 7.01	A1	1.1b
	Accept $\left[s_x = \sqrt{\frac{5675 - 30\left(\frac{355}{30}\right)^2}{29}} = 7.1294... \right]$	(2)	
(c)	$x = \frac{t + 15}{2}$ or $t = 2x + 15$	M1	3.1b
	Median = $2 \times 9 + 15 = 33$ (allow awrt 33.3 from "9.17" in (a))	A1ft	1.1b
	Sd = $2 \times 7.01 = 14.02...$ (awrt 14.0) [allow awrt 14.3 if s used]	A1ft	1.1b
		(3)	
(d)	The median time is "33" and "33" < 35 so 50% (30) should finish in 35 minutes.		
	ALT Probability of being < 35 mins is $\frac{18}{30} \quad \vee \quad \frac{18}{30} \times 60 = 36$ applicants to choose from.	M1	2.4
	It is likely that they will fill all 25 positions [providing those offered accept]	A1	2.2b
		(2)	
Notes: (9 marks)			
(a) M1: For a suitable fraction $\times 5$ (ignore end points) A1: For 9 or awrt 9.17 if using $n + 1$			
(b) M1: For a correct expression for s_x and S_x or s_x A1: For awrt $S_x = 7.01$ or $s_x =$ awrt 7.13			
(c) M1: For realising $x = \frac{t + 15}{2}$ and then rearranging to get a correct equation with t as the subject May be implied by a correct answer for the median of t . A1ft: ft their median A1ft: ft their S_x or s_x . NB using s gives awrt 14.3			
(d) M1: For a suitable comparison following through their value for the median of t . A1: A correct conclusion in context following through their value for the median of t .			

Mechanics 1 Summer 2013 Mark Scheme

**Ioana Boureanu, Constantin Cătălin
Drăgan, Mark Manulis, Thanassis
Giannetsos, Christoforos
Dadoyan, Panagiotis Gouvas, Roger A.
Hallman, Shujun Li, Victor Chang, Frank
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