

Question Number	Scheme	Marks
1.(a)	$S_d = 13833 - \frac{"1960" \times 33.6}{8} \quad \text{or} \quad 13833 - \frac{65856}{8} \quad (\text{But } 13833 - 8232 \text{ is M0})$ $= \underline{5601} \quad (*)$	M1 A1 cso (2)
(b)	w, since the number of wiggles depends on the distance <u>or</u> w depends on d	B1 (1)
(c)	$r = \frac{5601}{\sqrt{394600 \times 80.481}}, = 0.99389...$	awrt <u>0.994</u> M1, A1 (2)
(d)	$b = \frac{5601}{394600}, = 0.014194....$ $a = \frac{33.6}{8} - "0.01419..." \times \frac{"1960"}{8} = 4.2 - "0.01419..." \times 245 [= 0.72244..]$	(awrt 0.014) M1, A1 M1 A1 (4)
(e)	(i) $[0.722 + 0.0142 \times 350 =]$ (ii) Reliable since 350 m is in the range of the data	awrt: <u>5.7</u> or <u>5.6</u> B1 B1 (2)
	Notes	[11 marks]
(a)	M1 for clear attempt to find Σd and use in a correct formula. Accept $1300 < \Sigma d < 2500$ For the M1 we can condone a single slip e.g. using 1383 instead of 13833 etc A1cso for correct Σd and 5601 only. Must see the formula and so have scored M1	
(b)	B1 Must select w (or wiggles) and reason based on the idea that w is dependent on d Allow w "changes according to"/ "is determined/affected by" Must mention w and d B0 for "w is measured" or "d is explanatory/indep't" or "w can't be controlled" or "w responds to d"	
(c)	M1 for a correct expression (Allow ft of their incorrect S_{dw}) A1 for awrt 0.994 (Answer only 2/2) [Answer only of 0.99 scores M1A0]	
(d)	1 st M1 for a correct expression for b. (Allow ft of their incorrect S_{dw}) 1 st A1 for awrt 0.014 No fractions. [Answer only 2/2] Can be given at final equation. [Must come from correct formula <u>not</u> gradient of line from e.g. (650, 9.555) to (30, 0.725)] 2 nd M1 for a correct method for a. Follow through their value of b and their Σd 2 nd A1 for a correct equation for w and d with a = awrt 0.722 and b = awrt 0.0142 No fractions Equation in x and y is A0 Answer only 4/4	
(e)	1 st B1 for awrt 5.7 or awrt 5.6 2 nd B1 for a reason citing 350 (m) or mentioning d is in the range of the data and stating reliable. Allow "Interpolation (or not extrapolation) therefore reliable". Saying "5.7 (or w or just "it") is in the range" is B0 "accurate" instead of "reliable" is B0 "strong correlation" (without mention of interpolation o.e.) is B0 Apply ISW if a correct comment is seen.	

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Steve Dobbs, Jane Miller



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