

Question Number	Scheme	Marks
1.(a)	$S_d = 13833 - \frac{1960 \times 33.6}{8} \text{ or } 13833 - \frac{65856}{8} \text{ (But } 13833 - 8232 \text{ is M0)}$ $= \underline{5601} \quad (*)$	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 $\Sigma d$ 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 $\Sigma d$ 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 <sup>st</sup> M1 for a correct expression for b. (Allow ft of their incorrect $S_{dw}$ ) 1 <sup>st</sup> 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 <sup>nd</sup> M1 for a correct method for a. Follow through their value of b and their $\Sigma d$ 2 <sup>nd</sup> 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 <sup>st</sup> B1 for awrt 5.7 or awrt 5.6 2 <sup>nd</sup> 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.	

# Ocr 2012 June S1 Maths Exam Paper

**M Lipman**



**Ocr 2012 June S1 Maths Exam Paper:**

Ocr 2012 June S1 Maths Exam Paper: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Ocr 2012 June S1 Maths Exam Paper : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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