

Question	Answer	Marks	Part marks
1(a)(i)	$600 \div (11 + 9) \times 11$ [=330] with no errors seen	<b>M1</b>	Could be in separate steps
1(a)(ii)	270	<b>1</b>	
1(b)(i)	372 <i>cao nfw/w</i>	<b>3</b>	<b>B2</b> for answer 371.7... or <b>M1</b> for $330 \times \left(1 + \frac{1.5}{100}\right)^8$ <i>oe</i> not spoiled After zero scored, <b>SC1</b> for answer 42 or 41.7...
1(b)(ii)	12.6 or 12.7 or 12.63 to 12.73	<b>2</b>	<b>M1</b> for $\frac{\text{their (b)(i)} - 330}{330}$ or $\frac{\text{their (b)(i)}}{330} \times 100$ <i>soi</i> by 112.7 or 113 After zero scored, <b>SC1</b> for answer 12%
1(c)(i)	$\frac{99}{280}$ <i>cao final answer</i>	<b>1</b>	
1(c)(ii)	27.5[0]	<b>3</b>	<b>M2</b> for $24.75 + \frac{100 - 10}{100}$ <i>oe</i> or <b>M1</b> for recognising 24.75 as 90[%] <i>oe</i>
1(d)(i)	32 <i>cao</i>	<b>2</b>	<b>M1</b> for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right)[x]$ <i>oe</i> or for $0.15 \times 0.8 [x]$ <i>oe</i>
1(d)(ii)	13 <i>cao</i>	<b>2</b>	<b>M1</b> for $\left(1 - \frac{20}{100}\right)\left(1 - \frac{15}{100}\right) \times x = 40.84 - 32$ <i>oe seen</i> or for $\text{their (d)(i)} + \left(1 - \left(\frac{\text{their (d)(i)}}{100}\right)\right)x = 40.84$ <i>oe</i>
2(a)(i)	Image at (8, 1), (10, 5), (8, 5)	<b>2</b>	<b>B1</b> for translation $\begin{pmatrix} 6 \\ k \end{pmatrix}$ or $\begin{pmatrix} k \\ -5 \end{pmatrix}$ or 3 correct points not joined
2(a)(ii)	Image at (4, 10), (4, 8), (8, 8)	<b>2</b>	<b>B1</b> for rotation 90° anticlockwise but different centre or for rotation 90° clockwise about (-4, 10) or 3 correct points not joined
2(a)(iii)	Image at (6, 3), (6, 5), (7, 5)	<b>2</b>	<b>B1</b> for enlargement factor $\frac{1}{2}$ but incorrect centre or 3 correct points not joined
2(b)	Reflection	<b>1</b>	
	$y = -x$ <i>oe</i>	<b>1</b>	If zero scored, <b>M1</b> for correct use of matrix product

# Igcse Mathematics May 2013 4h Mark Scheme

**Michal Rosen-Zvi**



**Igcse Mathematics May 2013 4h Mark Scheme:**

The Top Books of the Year Igcse Mathematics May 2013 4h Mark Scheme The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt 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. Igcse Mathematics May 2013 4h Mark Scheme : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 compelling 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 suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web 5 3 first wash the used glassware properly with raw water 5 4 then scrub the glassware with 0 1 detergent solution 1 ml teepol in 1000 ml purified water 5 5 rinse the glassware properly with raw water 5 6 again rinse 3 to 4 times with purified water 5 7 drain the water from glassware 5 8 keep in drier use dried glassware for analysis

*validation of cleaning for research glassware* - Jul 01 2023

web the following are key steps to establish a validated glassware washing process for glassware used for research purposes developing a rugged controlled glassware washing

glassware cleaning validation cleaning validation - Feb 13 2022

web mar 17 2010 if it is a washing machine is it a specialised lab glassware washer with spikes of the correct lengths for tubular items etc use the above link for establishing a limit this is for a pharma manufacturing facility for cleaning validation

hope this will give you a rough idea to establish your own control limits

**cleaning laboratory glassware milliporesigma** - May 31 2023

web the water should be hot for glassware that is exceptionally dirty a cleaning powder with a mild abrasive action will give more satisfactory results the abrasive should not scratch the glass during the washing all parts of the glassware should be thoroughly scrubbed with a

**validating glassware washer results lab manager** - Sep 22 2022

web oct 17 2016 add a final rinse with water and you can be pretty confident that your washing process removes the residue from your lab s glassware keep it clean part of ensuring that glassware is clean depends on a lab putting a system in place