



AQA Higher May 13 Paper 1 Non-Calc

$$1. \sqrt[3]{64 \times 1000} = \sqrt[3]{64} \times \sqrt[3]{1000} \\ = 4 \times 10 \\ = 40$$

$$2. \left(\frac{2}{-3} \right)$$

$$3. 3a - 4a^2 + 2a = 5a - 4a^2$$

$$4. \frac{9.9}{0.0195} \approx \frac{10}{0.02} = 500$$

$$5. 5(x+3) < 60 \\ x+3 < 12 \\ x < 9$$

$$6. \frac{1.96}{1.6} = \frac{196}{160} = \frac{49}{40}$$

$$\text{original sum} = \frac{196}{160} \times \frac{100}{100} = \frac{49}{40}$$

$$7. \begin{array}{ccccccc} A & & B & & C & & D \\ 0 & \rightarrow & 6 & \rightarrow & 12 & \rightarrow & 17 \\ 2 & \rightarrow & 5 & \rightarrow & 8 & \rightarrow & 11 \end{array}$$

$$8. a) \frac{31}{50}$$

$$b) \frac{31}{50} = \frac{62}{100} \quad \text{side is quite a bit bigger than a half } \frac{50}{100}$$

$$9. -2\frac{3}{4} + 15\frac{1}{4} \\ = -\frac{23}{4} + \frac{61}{4} \\ = -\frac{23}{4} + \frac{122}{4} \\ = \frac{99}{4}$$

$$10. \begin{array}{ccccc} x & 12 & 6 & 3 \\ y & 2 & 4 & 9 \end{array}$$

$$y = \frac{x}{2} \quad 4 = \frac{6}{2} \quad x = 24$$

$$y = \frac{24}{2}$$



$$P = 5 + 5 + 2.5 + 2.5 + 5 + 2.5 = 25 \text{ cm}$$

$$12. \begin{array}{l} 6 \times 10^{-8} \\ 9 \times 10^{-4} \\ 4 \times 10^{-2} \\ 0.07 \end{array}$$

$$13. 15000 \text{ mm}^3$$

14. a) Current ratio is 10:12
Lines and arcs added in a ratio of 5:4

10:12	
15:18	1
20:24	2
25:30	3
30:36	4
35:42	5
40:48	6

$$b) 20 \text{ line costs } £12 \\ 1 \text{ line costs } £0.60 \quad 2 \div 20$$

$$\text{Cost of one line} = \text{cost of 2 arcs} \\ £0.60 = 2 \times 0.30 \quad 2 \times 30$$

$$16 \text{ arcs cost } 16 \times £0.40 = £14.40$$

$$\frac{16}{16} \quad \text{Total cost} = £12 + £14.40 = £26.40$$

$$15. \text{ (Holt) Expected number of odd no.s} \\ = 0.25 \times 200 + 0.15 \times 200 + 0.5 \times 200 \\ = 50 + 30 + 60 \\ = 140$$

$$16. 5:6$$

$$17. \frac{x}{\sin 42} = \frac{15}{\sin 104}$$

$$18. \text{ (Holt) } A = \left(\frac{\pi \times 10^2 - \pi \times 7^2}{2} \right) \div 2 \\ = \left(\frac{100\pi - 49\pi}{2} \right) \div 2 \\ = \frac{51\pi}{2}$$

$$2 \text{ of these in } A \text{ and } B = 51\pi \text{ cm}^2$$

Two rectangles underneath

$$= (3 \times 30) \times 2 \\ = 180 \text{ m}^2$$

$$b) 25^{\frac{3}{2}} = (\sqrt{25})^3 \\ = 5^3 \\ = 125$$

$$15. a) x = 3000$$

Mathematics Paper 33 June 2013 Mark Scheme

Anthony S. Fauci



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Metrics Vincanne Adams, 2016-03-05 This volume's contributors evaluate the accomplishments, limits and consequences of using quantitative metrics in global health. Whether analyzing maternal mortality rates, the relationships between political goals and metrics data, or the links between health outcomes and a program's fiscal support, the contributors question the ability of metrics to solve global health problems. They capture a moment when global health scholars and practitioners must evaluate the potential effectiveness and pitfalls of different metrics, even as they remain elusive and problematic. Contributors: Vincanne Adams, Susan Erikson, Molly Hales, Pierre Minn, Adeola Oni, Orisan Carolyn Smith, Morris Marlee Tichenor, Lily Walkover, Claire L. Wendland.

Finance for Normal People Meir Statman, 2017 Finance for Normal People teaches behavioral finance to people like you and me: normal people, neither rational nor irrational. We are consumers, savers, investors, and managers, corporate managers, money managers, financial advisers, and all other financial professionals. The book guides us to know our wants, including hope for riches, protection from poverty, caring for family, sincere social responsibility, and high social status. It teaches financial facts and human behavior, including making cognitive and emotional shortcuts and avoiding cognitive and emotional errors such as overconfidence, hindsight, exaggerated fear, and unrealistic hope. And it guides us to banish ignorance, gain knowledge, and increase the ratio of smart to foolish behavior on our way to what we want. These lessons of behavioral finance draw on what we know about us, normal people, including our wants, cognition, and emotions. And they draw on the roles of these factors in saving and spending, portfolio construction, returns we can expect from our investments, and whether we can hope to beat the market. Meir Statman, a founder of behavioral finance, draws on his extensive research and the research of many others to build a unified structure of behavioral finance. Its foundation blocks include normal behavior, behavioral portfolio theory, behavioral life cycle theory, behavioral asset pricing theory, and behavioral market efficiency.

The Instability of Truth Rebecca Lemov, 2025-03-25 An acclaimed historian of science uncovers the hidden history of brainwashing and its troubling implications for today. Because brainwashing affects both the world and our observation of the world, we often don't recognize it while it's happening, unless we know where to look. As Rebecca Lemov writes in *The Instability of Truth*, brainwashing erases itself. What we call brainwashing is more common than we think it is, not so much what happens to other people as what can happen to anyone. *The Instability of Truth* exposes the myriad ways our minds can be controlled against our will, from the brainwashing techniques used against American POWs in North Korea to the soft brainwashing of social media, doomscrolling, and behavior shaping. In our increasingly data-driven world, anyone can fall victim to mind control. Lemov identifies invasive forms of emotional engineering that exploit trauma and addiction to coerce and persuade in everyday life. Tracing the word brainwashing from deep in the files of an operative of the U.S. Office of Strategic Services in the 1950s to the pioneering research of Robert Jay Lifton to the public trials of cult leaders and the case of Patty Hearst, Lemov also studies how the idea of mind control has spread across the globe and

penetrated courtrooms secret labs military schools and today s digital sites The Instability of Truth offers lessons from mind control episodes past and present Truth is always subject to question in more mundane walks of life than most people believe and Lemov equips us for the increasing challenges we face from social media AI and an unprecedented global form of surveillance capitalism The Instability of Truth develops a rigorous new understanding of both brainwashing s paradoxes and its emotional roots by giving voice to brainwashers the brainwashed and third party observers alike **Hydrometallurgy** Suresh Bhargava,Mark Pownceby,Rahul Ram,2018-07-02 This book is a printed edition of the Special Issue Hydrometallurgy that was published in Metals **The Times Index** ,2010 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement Backpacker ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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