

Maths Literacy Paper 2 – Suggested Solutions

Question 1:

$$\begin{aligned}1.1.1 \quad \text{Volume} &= \frac{1}{2} \pi r^2 h \\&= \frac{1}{2} \pi (4)^2 (5) \\&= 125,66 \text{ m}^3\end{aligned}\tag{4}$$

$$\begin{aligned}1.1.2 \quad \text{Volume} &= \text{Block} - \text{half cylinder} \\&= [4 \times (4 + 4) \times 5] - 125,66 \\&= 160 - 125,66 \\&= 34,34 \text{ m}^3\end{aligned}\tag{3}$$

$$\begin{aligned}1.2 \quad \text{Surface area} &= \text{Rectangle} - \text{semi-circle} \\&= (4 \times 8) - \frac{1}{2} \pi (4)^2 \\&= 32 - 25,13 \\&= 6,87 \text{ m}^2\end{aligned}\tag{3}$$

$$\begin{aligned}1.3 \quad \text{Surface area} &= \text{Two rectangles} + 2 \times 6,87 \\&= 2 \times (4 \times 5) + 2 \times 6,87 \\&= 53,74 \text{ m}^2\end{aligned}\tag{3}$$

$$\begin{aligned}1.4 \quad \text{Curved surface} &= \frac{1}{2} \times 2 \pi r h \\&= \pi (4)(5) \\&= 62,83 \text{ m}^2\end{aligned}\tag{3}$$

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Hello World Hannah Fry, 2018-09-18 Shortlisted for the 2018 Baillie Gifford Prize and the 2018 Royal Society Investment Science Book Prize A beautifully accessible guide One of the best books yet written on data and algorithms Times UK If you were accused of a crime who would you rather decide your sentence a mathematically consistent algorithm incapable of empathy or a compassionate human judge prone to bias and error What if you want to buy a driverless car and must choose between one programmed to save as many lives as possible and another that prioritizes the lives of its own passengers And would you agree to share your family's full medical history if you were told that it would help researchers find a cure for cancer These are just some of the dilemmas that we are beginning to face as we approach the age of the algorithm when it feels as if the machines reign supreme Already these lines of code are telling us what to watch where to go whom to date and even whom to send to jail But as we rely on algorithms to automate big important decisions in crime justice healthcare transportation and money they raise questions about what we want our world to look like What matters most Helping doctors with diagnosis or preserving privacy Protecting victims of crime or preventing innocent people being falsely accused Hello World takes us on a tour through the good the bad and the downright ugly of the algorithms that surround us on a daily basis Mathematician Hannah Fry reveals their inner workings showing us how algorithms are written and implemented and demonstrates the ways in which human bias can literally be written into the code By weaving in relatable real world stories with accessible explanations of the underlying mathematics that power algorithms Hello World helps us to determine their power expose their limitations and examine whether they really are improvement on the human systems they replace

Disorder and the Disinformation Society Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

Exploring the Contexts for Early Learning Rory McDowall Clark, 2016-09-01 The concept of readiness for school is attractive to policy makers but many academics

researchers and practitioners argue that an early start to formal learning may be misguided This book introduces readers to an increasing body of evidence which demonstrates that young children need opportunities to learn and develop in environments that support their emotional and cognitive needs offering opportunities to develop autonomy competence and self regulation skills With advice on implementing research findings in practice this book provides clear guidance on how to foster and develop these attributes scaffold steps into new areas of learning and support children in facing new challenges Chapters cover Policy and discourses Taking account of development Approaches to Early Years Learning The Diversity of Children s Early Experiences Transitions and starting school Where to in the Future Exploring the Contexts for Early Learning will be essential reading for students practitioners policy makers and all those interested in the school readiness agenda

14-19 diplomas Great Britain: Parliament: House of Commons: Education and Skills Committee,2007-05-17 In October 2004 the Tomlinson report downloadable at http://www.dfes.gov.uk/14-19/documents/Final_Report.pdf set out wide ranging proposals for changes to the curriculum and examination arrangements for the education of 14 to 19 year olds In February 2005 the Government published its response in the form of a White Paper Cm 6476 ISBN 9780101647625 detailing a 10 year reform programme including the introduction of 14 new awards originally called vocational Diplomas thus rejecting the overarching Diploma award recommended in the Tomlinson report Whilst stating its belief that the proposed changes would have been better structured and more coherent had Tomlinson s proposals been adopted the Committee s report examines the design development and implementation of the Government s Diplomas scheme

Computer Graphics and Geometric Modeling Using Beta-splines Brian A. Barsky,2013-12-20

Indigenous Struggle and the Bolivian National Revolution James Kohl,2020-11-26 Indigenous Struggle and the Bolivian National Revolution Land and Liberty reinterprets the genesis and contours of the Bolivian National Revolution from an indigenous perspective In a critical revision of conventional works the author reappraises and reconfigures the tortuous history of insurrection and revolution counterrevolution and resurrection and overthrow and aftermath in Bolivia Underlying the history of creole conflict between dictatorship and democracy lies another conflict the unrelenting 500 year struggle of the conquered indigenous peoples to reclaim usurped lands resist white supremacist dominion and seize autonomous political agency The book utilizes a wide array of sources including interviews and documents to illuminate the thoughts beliefs and objectives of an extraordinary cast of indigenous revolutionaries giving readers a firsthand look at the struggles of the subaltern majority against creole elites and Anglo American hegemony in South America s most impoverished nation This book will be of interest to students and scholars of modern Latin American history peasant movements the history of U S foreign relations revolutions counterrevolutions and revolutionary warfare

Foundations of Radiation Hydrodynamics Dimitri Mihalas,Barbara Weibel Mihalas,2013-04-10 Excellent informative volume focuses on dynamics of nonradiating fluids problems involving waves shocks and stellar winds physics of radiation radiation transport and the dynamics of radiating fluids 1984 edition

International Who's who in Poetry ,1977
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South African national bibliography ,1988 Includes publications received in

The Top Books of the Year June 2013 Maths Paper2 Memorandum The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed 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. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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 engaging 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 brilliant and thrilling 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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