

# MATHEMATICS

## Paper 02 – General Proficiency

*2 hours 40 minutes*

**22 MAY 2013 (a.m.)**

### 1. Number

a. –

i.  $\frac{11}{18}$

ii. 1.3524

b. The better buy is decided on how much are you getting per dollar spent.

More is better. So we compare both  $\frac{350\text{ml}}{\$4.2} = 83.3\text{ml} / \$$  and

$\frac{450\text{ml}}{\$5.13} = 87.72\text{ml} / \$$ , we see that buying the 450ml is better

c. –

i. \$768 interest in the first year

ii. \$6000 remains to be paid

iii. \$480 interest in the second year calculated on the reducing balance

### 2. Algebra

a. Factorize completely

i.  $2x^3 - 8x = 2x(x-2)(x+2)$

ii.  $3x^2 - 5x - 2 = (3x+1)(x-2)$

b. –

i.  $F = \frac{9}{5}C + 32 \Rightarrow C = \frac{5}{9}(F - 32)$

ii.  $C = \frac{5}{9}(113 - 32) = 45^\circ C$

c. –

i. .

a.  $10(500 - x)$

# June 2013 Maths Paper

**Shasha Hu**



## June 2013 Maths Paper:

*The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World* Alan Rogerson, 2015-07-01 This volume contains the papers presented at the International Conference on Mathematics Education in a Connected World held from September 16-21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

*Mathematical Intelligence* Mubeen Junaid, 2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we're actually good at mathematics There's so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn't ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It's familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in-built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself

**Six Capitals, or Can Accountants Save the Planet?: Rethinking Capitalism for the Twenty-First Century** Jane Gleeson-White, 2015-02-25 A timely and fascinating account of the revolution going on in the world of finance from the acclaimed author of *Double Entry* This is the story of a twenty-first century revolution being led by the most unlikely of rebels accountants Only the second revolution in accounting since double entry bookkeeping began it is of seismic proportions driven by the 2008 financial crash and our ongoing environmental crisis The changes it will wreak are profound and far-reaching and not only will transform the way the world does business but also will alter the nature of

capitalism While the wealth of nations and corporations has been vital to the global economy increasingly the world is coming to realize that such endless growth is limited by the earth's resources and comes at a huge price to the planet and to human well being It simply cannot be sustained This revolution demands that we go beyond merely accounting for traditional financial and industrial capital and take account of the benefits and detriments to the natural world and society It urges us to include four new categories of wealth intellectual such as intellectual property human skills productivity and health social and relationship shared norms and values and natural environment Making them part of our financial statements and GDP figures may be the only way to address the many calamities we face Just two years ago this revolution seemed idealistic and unlikely Today it is quickly unfolding In 2012 the sea change year two key initiatives took root an international movement to transform how corporate accounting is calculated and the rise of incorporating the effects on the environment to the accounting of national and global economies Six Capitals tells the story of this coming new age in capitalism evaluating its promise and the disaster that lies ahead if it is not implemented

Mediated Millennials Jeremy Schulz, Laura Robinson, Aneka Khilnani, John Baldwin, Heloisa Pait, Apryl A. Williams, Jenny Davis, Gabe Ignatow, 2019-11-11 Sponsored by the Communication Information Technologies and Media Sociology Section of the American Sociological Association CITAMS Millennials and Media brings together case studies from across the globe to provide a timely examination of Generation Y's media practices

**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      **Teacher in Zimbabwe** ,2014      The Times Index ,2013-06 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement      **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2014

Indian National Bibliography ,2015-07      **Commonwealth Universities Yearbook** T. Craig,Hugh W. Springer,1979

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## **Table of Contents June 2013 Maths Paper**

1. Understanding the eBook June 2013 Maths Paper
  - The Rise of Digital Reading June 2013 Maths Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Maths Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an June 2013 Maths Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Maths Paper
  - Personalized Recommendations

- June 2013 Maths Paper User Reviews and Ratings
- June 2013 Maths Paper and Bestseller Lists
- 5. Accessing June 2013 Maths Paper Free and Paid eBooks
  - June 2013 Maths Paper Public Domain eBooks
  - June 2013 Maths Paper eBook Subscription Services
  - June 2013 Maths Paper Budget-Friendly Options
- 6. Navigating June 2013 Maths Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - June 2013 Maths Paper Compatibility with Devices
  - June 2013 Maths Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of June 2013 Maths Paper
  - Highlighting and Note-Taking June 2013 Maths Paper
  - Interactive Elements June 2013 Maths Paper
- 8. Staying Engaged with June 2013 Maths Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers June 2013 Maths Paper
- 9. Balancing eBooks and Physical Books June 2013 Maths Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection June 2013 Maths Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 Maths Paper
  - Setting Reading Goals June 2013 Maths Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 Maths Paper
  - Fact-Checking eBook Content of June 2013 Maths Paper

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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