MAY JUNE 2012 Paper 02 - Structured Questions

Paper 02 — Structured Questions The mean mark for this paper was 33.64 out of 120 marks.

Question 1 (The mean mark was 4.60 out of 12)

- (a) 19/21 (b) (i) 20% (ii) \$80
- (c) (i) TT\$2.50 (ii) EC\$216 (iii) US\$96

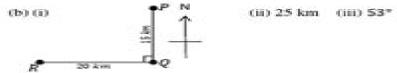
Question 2 (The mean mark was 3.79 out of 12)

(a) (i)
$$2x^2y(x+3y)$$
 (ii) $(3x-2)(3x+2)$ (iii) $(4x-y)(x+2y)$

(b) x = 9 (c) x = 4, y = 1

Question 3 (The mean mark was 4.63 out of 12)

(a) (i)
$$y = 30 - 9x$$
, $z = 4$ (ii) a) $x + 34$ b) $x = 2$



Question 4 (The mean mark was 2.45 out of 10)

- (a) (i) 16.5 cm (ii) 23.5 cm (iii) 28.875 cm²
- (b) (i) 577.5 cm3 (ii) 4216 kg

Question 5 (The mean mark was 3.33 out of 12)

- (a) (ii) $RQ = 5.9 \pm 0.1$ cm
- (b) (i) $\frac{4}{9}$ (ii) $y = \frac{4}{9}x 2$ (iii) (3, 2) (iv) 10

Question 6 (The mean mark was 2.56 out of 11)

- (b) Scale factor = 2, centre (1, 5) (c) 4
- (e) A rotation of 90° in an anticlockwise direction with centre (0,0).

Question 7 (The mean mark was 4.19 out of 11)

(a) 35 and 47 (c) (i) 64 years (ii) 48 56

Question 8 (The mean mark was 6.30 out of 10)

- (b) (i) 16, 2(4) + 1 = 9 (ii) 10, 2(10) + 1 = 21
 - (iii) 400, 2(20) + 1 = 41 (iv) n^2 , 2n + 1

Question 9 (The mean mark was 2.72 out of 15)

- (a) (i) x = -4, -4 y = 12
 (ii) The line is a tangent to the curve because it touches the curve at one point only.
- (b) (i) $y \ge \frac{1}{2}x$, $x \ge 2$, (iii) (2,1)(2,10)(8,4) (iv) \$46

Question 10 (The mean mark was 2.72 out of 15)

- (a) (i) 6 cm (ii) 44°
- (b) (i) a) 35° b) 55° c) 20° (ii) a) △ YOX b) △ ZUX

Question 11 (The mean mark was 3.28 out of 15)

- (a) (i) a) $\binom{3}{2}$ b) $\binom{9}{-6}$ (ii) BC = 3BA
- (b) (i) $\alpha = 3, b = -2$ (ii) $-\frac{1}{2}\begin{pmatrix} -3 & 4 \\ -1 & 2 \end{pmatrix}$ (iii) x = 4, y = -1

May June 2012 1mathematics Core

James Freemyer

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The Common Core in Action Deborah J. Jesseman, 2015-06-19 This book addresses Common Core State Standard curriculum resources to assist the school librarian in collaborating with classroom teachers Librarians are being asked to understand the Common Core State Standards CCSS and their implications to programming and instruction as well as to collection development planning Using lesson plans originally published in School Library Monthly this title builds upon them adding many additional plans that address CCSS issues The plans will help you implement the standards and can also be used as stepping stones to facilitate planning conversations and collaboration with teachers to co teach lessons correlated with the standards The book begins with an overview of the CCSS what they are how are they different from the content standards and what the implications are for schools where the state has adopted them including what the CCSS mean for collection development It then goes on to explore the opportunities the CCSS present for the school librarian looking at how you can become a leader in employing the process The majority of the book is devoted to reproducible lesson plans organized by curricular area or topic and grade level for ease of use IGCSE Mer Merlyn ,2015-08-27 Buku IGCSE ini merupakan aplikasi dari pelajaran matematika yang berbasis di University of Cambridge Berisi kumpulan soal lengkap dengan kunci jawaban Memudahkan para siswa dalam menghadapi pelajaran matematika Semoga buku ini bisa menjadi jembatan bagi para siswa yang ingin menguasai mata pelajaran matematika dengan baik The Next Step James Freemyer, 2019-11-04 This book is written on the behalf of mathematics teachers who have been asked to teach more conceptually while simultaneously motivating more students of all ability levels to willingly embrace further upper level mathematics content and courses This is a BIG ASK Math teachers are being expected to overhaul their current teaching approach Can teachers be expected to embrace this crusade alone isolated in a classroom Principals are charged with leading the way They must provide the opportunities and resources necessary for effective teacher collaboration After reading this book a principal will comprehend the enormity of task each mathematics teachers faces and learn what must be done to help School leaders will be able to design a growth plan based on a plethora of collaborative approaches Mathematics teachers will experience the assistance they have desperately needed Enhancing Entrepreneurial Mindsets Through STEM Education Sila Kaya-Capocci, Erin Peters-Burton, 2023-01-01 Entrepreneurship is defined in different fields with definitions ranging from a specific perspective such as starting a business to a broader perspective such as a process of establishing new social economic environmental institutional cultural and or scientific environments There has been some movement toward entrepreneurship in STEM education through hackathons and makerspaces but they tend to be limited to informal settings In higher education there seems to be a border line between business schools and education departments This book aims to remove the borders between the Business Schools and the Department of Education and help Business Schools to develop their educational practices further and help Education Departments to develop their knowledge of entrepreneurship from its

formal discipline The purpose of this book is to bring together experts from STEM education and the formal discipline of entrepreneurship to explore the role of STEM in everyday life through an entrepreneurial lens and show how this integration can broaden STEM education practices Evidence, Politics, and Education Policy Lorraine M. McDonnell, M. Stephen Weatherford, 2021-02-01 In Evidence Politics and Education Policy political scientists Lorraine M McDonnell and M Stephen Weatherford provide an original analysis of evidence use in education policymaking to help scholars and advocates shape policy more effectively The book shows how multiple types of evidence are combined as elected officials and their staffs work with researchers advocates policy entrepreneurs and intermediary organizations to develop create and implement education policies Evidence Politics and Education Policy offers an in depth understanding of the political environment in which evidence is solicited and used Two key case studies inform the book s findings The primary case a major multimethod study examines the development and early implementation of the Common Core State Standards at the national level and in four states California Indiana Massachusetts and Tennessee A comparative case analyzes the evidence used in Congressional hearings over the twenty year history of the Children's Health Insurance Program Together the two cases illustrate the conditions under which different types of evidence are used and in particular how federalism the complexity of the policy problem and the policy s maturity shape evidence use McDonnell and Weatherford focus on three leverage points for strengthening the use of research evidence in education policy integrating research findings with value based policy ideas designing policies with incentives for research use built into their rules and organizational structures and training policy The Myth of America's Decline Josef Joffe, 2013-10-29 analysts to promote the use of research in policymaking venues A bracing and intelligent reminder that for all its woes America remains extraordinarily dynamic innovative and resilient Fareed Zakaria Hailed by the Wall Street Journal as one of the best books of 2013 The Myth of America's Decline is a highly provocative look at how the United States for all its failings continues to be the leading business political and intellectual model for all other nations In a world where America bashers constantly chortle that the United States is in decline Josef Joffe using lively historical examples and empirical economic models demonstrates that these doomsday contentions are flawed and that America even when compared with a resurgent China is the land where the future is being born

Economic and Social Survey, Jamaica ,2013 Nigerian Journal of Social Work Education ,2014 Budget Request Colorado. Department of Education,2013 The Massachusetts Register ,2018-07-13 Standard & Poor's Creditweek ,2002 Medium Term Plan Implementation Progress Report Zimbabwe. Ministry of Economic Planning and Investment Promotion. Medium Term Plan,2012 Journal of Developmental Education ,2013 Occupational Outlook Handbook 2011-2012 U.S. Department of Labor,2011-06-03 The most comprehensive up to date resource available for choosing the career that s right for you When making a decision about your career path it is crucial that you consider any aspect of a job that will affect your future your sense of fulfillment and your bottom line With current statistics from the

number one source of job data in America the U S Department of Labor the Occupational Outlook Handbook 2011 2012 is your best choice for researching careers whether you re looking for your first job or contemplating a career change From able seaman to zoologist you ll get vital information about more than 250 occupations including Nature of the work and working conditions Earnings Training qualifications and advancement Job outlook With its vast amount of practical up to date information the Occupational Outlook Handbook is an essential tool for making informed intelligent decisions about your future Did you know Training at a vocational school college or university is increasingly important for getting a job as a travel agent A physician assistant s working conditions can vary from regular hours in an office setting to long periods of standing in an operating room Accountants and auditors budget officers credit analysts loan officers and underwriters have training and skills similar to those of financial managers Boilermakers often use potentially dangerous equipment such as acetylene torches and power grinders handle heavy parts and work on ladders or on top of large vessels **OECD Economic Surveys** .2012 THE BIG BOOK OF JOBS 2012-2013 McGraw Hill, 2011-08-12 Up to date authoritative job information from the most trusted source the U S Department of Labor Does your resume tell employers what they really need to know Which fields are showing the most growth opportunity What is a realistic salary for the job you want Whether you ve recently earned a degree decided to change careers or reentered the workforce after an extended absence is the guide you need to make the right decisions the first time around The Job Seekers Guide provides expert advice on Choosing a career path Building career management skills Researching careers in the information age Writing effective cover letters and polished resumes The Occupational Outlook Handbook offers the latest statistics on Working conditions Employment trends and outlooks Training qualifications and advancement Salary ranges Medical School Admission Requirements (Msar) 2011-2012 Aamc, Association of American Medical Colleges, 2010-03 Vermont Magazine ,1998 New Jersey Register ,2014-08 Colorado Mountain Junior College District BKD (Firm), 2012

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