

**GRADE 12 MATHEMATICS**  
**NOVEMBER EXAMINATION PAPER 1**

**QUESTION 1**

1.1 Solve for  $x$

1.1.1  $x^2 - 9x + 20 = 0$  (3)

1.1.2  $x(x + 3) - 1 = 0$  (correct to 2 decimal points) (3)

1.1.3  $x^2 + 7x < 0$  (3)

1.1.4  $2x^{\frac{2}{3}} = 64$  (4)

1.2 Solve simultaneously for  $x$  and  $y$  if:

$2x - y = 8$ , and  
 $x^2 - xy + y^2 = 19$  (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{16}}{\sqrt[3]{16}}$$

(4)

**QUESTION 2**

2.1 The terms  $p$ ,  $(2p + 2)$ ,  $(5p + 3)$  form an arithmetic sequence.

Determine:

2.1.1 The value of  $p$ . (4)

2.1.2 The rule in the form of  $a_n = a + (n - 1)d$ . (2)

2.1.3 The 15th term of the sequence. (4)

2.2  $x$ ,  $y$ , 81 is a geometric sequence.  
And  $y = 2x - 5$   
All terms in the sequences are integers.  
Calculate the values of  $x$  and  $y$ . (10)

(20)

**QUESTION 3**

Given the sequence 2, 8, 10, 14, ....

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate  $T_{10}$ . (3)

3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

(12)

**QUESTION 4**

The sketch below shows the graph of  $f(x) = \frac{-1}{x+5} + q$ . The asymptotes of  $f$  intersects at  $B(-1; y)$ . The Point  $D(5; 4)$  is a point on the graph.



4.1 Determine the value of  $p$ . (1)

4.2 Prove that  $q = 5$ . (2)

4.3 Calculate the  $x$ -intercept of  $f$ . (2)

4.4 Determine the equation of the vertical asymptote of  $h$  if  $h(x) = f(x + 4)$ . (2)

4.5 One of the symmetry axes of  $f$  is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values  $x$  for  $f(x) \geq x + 6$ . (2)

4.7 Determine the equation of  $g$ , the reflection of  $f$  in the  $x$ -axis and move two units to the right. (3)

(15)

# Maths Paper 1 Grade 12 November 2011

**Sir James Augustus Henry Murray**



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**Great Teachers** Great Britain. Parliament. House of Commons. Education Committee, 2012 Additional written evidence is contained in Volume 3 available on the Committee website at [www.parliament.uk/education-committee](http://www.parliament.uk/education-committee) *The Armed Forces Covenant in action?* Great Britain: Parliament: House of Commons: Defence Committee, 2013-07-18 A series of Ofsted inspections on Army Apprenticeships conducted in 2013 rated the overall effectiveness as good This was an improvement over the last inspection in 2009 rated as satisfactory now called requires improvement Some 28 per cent of Army recruits were less than 18 years of age Further information is needed on why the Army is so dependent on recruiting personnel under the age of 18 years compared to the other two Services and whether steps are being taken to reduce this dependency Of those recruited in 2012 35 per cent of the Army were rated at entry level 2 for literacy that of a 7 to 8 year old and 39 per cent had a literacy level of an eleven year old If as the MoD states it has to recruit personnel at whatever level of attainment is available then it should boost remedial action when recruitment entry standards are particularly low In light of changes brought about by Future Force 2020 it may be that recruiting personnel with higher levels of attainment would better meet the future needs of the Armed Forces Whilst the Committee recognises that some recruits may not be eager to take further academic exams the MoD should encourage more recruits to undertake English and Maths GCSEs which would stand them in good stead for future employment The MoD has carried out some useful pilot projects with paramedic training and should

identify more potential projects to ensure that vital skills paid for by the MoD are not lost to the country

**Research for Educational Change** Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perennial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research

*Human Resource Management, 11th Edition* Raymond J. Stone, Anne Cox, Mihajla Gavin, Joseph Carpini, 2024-06-04 The new edition of Raymond Stone's Human Resource Management is an AHRI endorsed title that has evolved into a modern relevant and practical resource for first year HRM students This concise 15 chapter textbook gives your students the best chance of transitioning successfully into their future profession by giving them relatable professional insights and encouragement to exercise their skills in authentic workplace scenarios

**Bad Education: Debunking Myths In Education** Adey, Philip, Dillon, Justin, 2012-10-01 As Ben Goldacre's Guardian Bad Science column debunks popular scientific myths this book aims to do the same for education myths and unjustified claims

**Preschool Geometry** Esther Levenson, Dina Tirosh, Pessia Tsamir, 2012-01-01 Recently the issue of early childhood mathematics has come to the fore and with it the importance of teaching geometrical concepts and reasoning from a young age Geometry is a key domain mentioned in many national curricula and may also support the learning of other mathematical topics such as number and patterns This book is based on the rich experience research and practice of the authors and is devoted entirely to the learning and teaching of geometry in preschool The first part of the book is dedicated to children's geometrical thinking building concept images in line with concept definitions and the dilemmas that arise in the process The second part focuses on geometrical tasks and their role in developing and assessing geometrical reasoning The third part focuses on teaching geometry to young children Each of the three parts is structured in a similar manner beginning with general theory and research continuing with specific

examples related to those theories and moving on to elements of actual practice Written in a meaningful yet enjoyable manner any person who has an interest in the mathematics education of preschool children be it parents caregivers teachers teacher educators and researchers will find this book relevant

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**Parliamentary Debates (Hansard).** Great Britain. Parliament. House of Commons,2012 *The Times Index* ,2008 Indexes the Times and its supplements

**The English Baccalaureate** Great Britain: Parliament: House of Commons: Education Committee,2011-07-28 This report suggests that any new performance or curriculum measures affecting schools should only be implemented after proper consultation with key stakeholders and the wider public something which didn t happen with the English Baccalaureate EBac The Committee says that the Government should also have waited until after the conclusion of the National Curriculum Review before introducing the EBac They want the Government to deliver on its promise in the White Paper The Importance of Teaching to use performance tables to put greater emphasis on the progress of every child The report notes that certain academic subjects studied at A level are more valued by Russell Group universities than others but argues that a focus on a fairly narrow range of subjects demanding considerable curriculum time is likely to have negative consequences on the uptake of other subjects The Committee does not make recommendations on which subjects should or should not be included but rather encourages the Government to reconsider the EBac s composition when the National Curriculum Review is concluded The Government should confirm how it will monitor the attainment of children on free school meals in the EBac The report also calls for further international evidence to inform debate on the merits of the EBac evidence the inquiry received did not suggest a link in other countries between the prescribed study of certain academic subjects and improved attainment and prospects for poorer students Elsewhere the report argues that the current arrangements for certification of the EBac should be shelved as should calls for a Technical Baccalaureate to sit alongside the existing award

*New Frontiers for College Education* Jim Gallacher,Fiona Reeve,2018-08-06 The college sector is facing a growing number of new challenges caused by technological change globalisation and the growth of mass higher education New Frontiers for College Education considers the impact these changes have had and explores the developing role of college education in countries throughout the world Whilst analysing the issues associated with providing high quality

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**The Routledge International Handbook of Educational Effectiveness and Improvement** Christopher Chapman, Daniel Muijs, David Reynolds, Pam Sammons, Charles Teddlie, 2015-08-14 The International Handbook of Educational Effectiveness and Improvement draws together leading academics and researchers in the field to reflect on the history traditions and the most recent developments in this dynamic and influential field This handbook provides a comprehensive overview of the foundations of the field the evolution of educational effectiveness theory and methodology the links with other research disciplines the links between policy and practice In conclusion the handbook sets out a new agenda for future educational effectiveness research This handbook is an essential resource for those interested in the effectiveness of educational systems organisations and classrooms It offers academics researchers students and policy makers new insights into the latest thinking and evidence about educational effectiveness

**Ebony**, 2005-09 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine

**Mentalidades Matemáticas** Jo Boaler, 2017-09-08 Embora todo ser humano seja capaz de aprender matemática em altos níveis e apaixonar-se pela disciplina ao longo de seus anos na escola e para toda a vida todos nós temos ou conhecemos alguém que tem uma história de fracasso frustra-o ou pavor relacionada matemática Neste livro Jo Boaler aponta razões pelas quais a disciplina se tornou a grande vilã das experiências escolares dos estudantes E com base em sua extensa pesquisa a autora revela como professores gestores e pais podem ajudá-los a transformar suas ideias e experiências com a matemática ao desenvolver neles uma mentalidade de crescimento Com exemplos eficazes Mentalidades matemáticas um importante guia de informações técnicas e atividades práticas que podem ser implementadas dentro e fora das salas de aula para tornar a aprendizagem da matemática mais agradável e acessível para todos os alunos

*The Compact Edition of the Oxford English Dictionary* Sir James Augustus Henry Murray, 1971

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