

Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
<b>SOLUTION</b> <b>NB:</b> Accept valid alternate solutions. <b>Consistent Accuracy</b> applies to the whole memo.		
<b>QUESTION 1</b>		
1.1	$m_{HM} = \frac{6 - 4}{3 + 1}$ $= \frac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left( \frac{3 + 4}{2}; \frac{6 + 1}{2} \right)$ $= \left( \frac{7}{2}; \frac{7}{2} \right)$	✓ Correct Substitution  ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan \theta = \frac{1}{2}$ $\theta = 26,57^\circ$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	<p><math>R</math> is the midpoint of diagonal <math>AH</math> (Diags of a parm)          Let the coordinates of <math>A</math> be <math>(x; y)</math>.</p> $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ <p><math>\therefore A(8; 3)</math></p>	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ <p>Sub <math>T(4; 1)</math></p>	    ✓ Sub $T(4; 1)$   ✓ $c = -1$

# June 2013 Mathematics Memo Grade 11

**Thad Williamson, Julian M. Hayter, Amy  
L. Howard**



## **June 2013 Mathematics Memo Grade 11:**

Applied Public Relations Kathy Brittain Richardson, Marcie Hinton, 2015-03-27 With its practical orientation and scope Applied Public Relations is the ideal text for any public relations case studies or public relations management course that places an emphasis on stakeholder groups Through the presentation of current cases covering a wide variety of industries locations and settings Kathy Richardson and Marcie Hinton examine how real organizations develop and maintain their relationships offering valuable insights into business and organizational management practices The book s organization of case studies allows instructors to use the text in several ways instructors can focus on specific stakeholders by using the chapters presented they can focus on particular issues such as labor relations or crisis management by selecting cases from within several chapters or they can select cases that contrast campaigns with ongoing programs or managerial behaviors A focus on ethics and social responsibility underlies the book and students are challenged to assess the effectiveness of the practices outlined and understand the ethical implications of those choices This Third Edition features 25 new and current domestic and international case studies specifically chosen for their relevancy and relatability to students New Professional Insights commentaries where practitioners respond to a set of questions relating to their work Increased emphasis on ethics and social responsibility Fully enhanced companion website that is connected with the text including a test bank and PowerPoint presentations for instructors and chapter specific discussion questions and additional readings for students

**Budget of the United States Government** United States. Office of Management and Budget, 2014     The Budget of the United States Government United States. Office of Management and Budget, 2015     Bloomberg Chris McNickle, 2017-09-19 Examine the Bipartisan Legacy of a Remarkable Billionaire Politician Bloomberg A Billionaire s Ambition tells the story of how one of America s most successful entrepreneurs was elected mayor of New York City and what he did with the power he won Bloomberg s stunning victory against all odds just weeks after the 9 11 terrorist attack left him facing challenges unlike any mayor in history For the next twelve years he kept the city safe managed budgets through fiscal crises promoted private sector growth generated jobs built infrastructure protected the environment supported society s cultural sensibilities and achieved dramatic improvements in public health Bloomberg was an activist executive who used government assets boldly and wisely for the greatest good for the greatest number of people His time as mayor was not without controversy Bloomberg supported stop and frisk police tactics that a judge ruled unconstitutional and jailhouse violence rose to levels so severe the federal government intervened The administration s homeless policies were ineffective And he forced a change in the city charter to allow him to serve a third term Overall record low crime and the lasting impact of innovative policies will cause his tenure to be remembered as a remarkable success Having returned to his global media empire and to his private philanthropy Bloomberg continues to challenge the National Rifle Association on gun control promote national education reform and support policies to combat climate change Frequently touted as an independent

candidate for president Bloomberg leaves behind a legacy of effective government      **Appendix, Budget of the United States Government, Fy 2015** Executive Office Of The President, Office of Management and Budget (U.S.), 2014-04-15 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies      *Breaking the STEM Stereotype* Amanda Alzena Sullivan, 2019-10-21 Men continue to outnumber women in numerous technical STEM Science Technology Engineering and Math fields such as engineering and computer science Prior work demonstrates the importance of introducing girls to STEM content early on before gender stereotypes are ingrained However many parents and teachers are not sure how to do this in a developmentally appropriate and playful way *Breaking the STEM Stereotype Reaching Girls in Childhood* by Dr Amanda Sullivan Ph D explores the various social cultural and psychological reasons behind the persistent gender disparity between men and women in STEM fields By explaining the powerful role of stereotypes the media and experiences with peers and adults during the foundational early childhood years this book builds the case of early childhood being a critical time in development to reach girls *Breaking the STEM Stereotype* is set up in three parts Part 1 provides the current state of the gender divide in each aspect of STEM and explores why early childhood is a critical time to address this divide Part 2 explores gender identity development and gender stereotypes as well as the influences of the media advertising and adult and peer role models on young children Finally Part 3 arms readers with the knowledge they need to dispel gender stereotypes in STEM It provides suggestions on tools technologies and kits that can be used with young girls beginning in pre kindergarten It provides materials needed to design effective curricula and activities to engage girls with STEM in playful ways that build on their personal interests      **Women in Wildlife Science** Carol L. Chambers, Kerry L. Nicholson, 2022-11-01 The first book to address the challenges and opportunities for women especially from underrepresented communities in wildlife professions *Women in Wildlife Science* is dedicated to the work of promoting equity diversity and inclusion in wildlife conservation and management Editors Carol L Chambers and Kerry L Nicholson collaborate with a diverse team of authors to analyze the status and celebrate the achievements of women in wildlife science They share proven models and propose new methods to increase the inclusion of women in wildlife professions based on an intersectional framework Centering perspectives from LGBTQ people women of color and members of other marginalized communities this is a groundbreaking and vitally important resource Covering academic and professional spheres *Women in Wildlife Science* draws on enlightening personal stories and peer reviewed scientific literature unavailable anywhere else to explain the challenges women face in the field of wildlife conservation and management The contributors tackle pivotal issues from recruitment into academic programs to hiring practices and ways to support career advancement in federal state

local tribal and private sectors Each chapter includes practical advice and original exercises constructed to help administrators educators managers allies and mentors move intentions into action This pragmatic guide will help to ensure a more diverse just and equitable future for a workforce dedicated to preserving wildlife and the whole of the natural world

*Competency-Based Education* Rose L. Colby, 2019-01-02 Competency Based Education introduces educators to a new model for anytime anywhere schooling and provides tools and curriculum resources for redesigning the traditional structures of K 12 schools Based on pioneering work across multiple states the book shows how educators can design central elements of competency based education including performance tasks personal learning plans and grading systems to meet the needs and interests of all students Rose L Colby provides critical tools for creating these elements in collaborative teams and engaging stakeholders such as educators parents and community members The book incorporates case studies and voices from the field and examines the variety of competency models that schools have adopted highlighting the benefits for students Competency Based Education provides a much needed resource at a time when states districts and schools are working to implement competency based models and experimenting with new accountability systems that include evidence of learning beyond standardized tests

**The Making of Twenty-First-Century Richmond** Thad Williamson, Julian M. Hayter, Amy L. Howard, 2024-12-02 Richmond Virginia took center stage globally in the summer of 2020 as an epicenter of antiracist protests in the wake of the police murder of George Floyd In a period of just a few weeks overwhelming public support grew for removing Richmond s Confederate monuments Activists then transformed the remaining statue of Robert E Lee into a shrine to African American resolve to the Black Lives Matter movement and to Black victims of police brutality Coming to terms with Richmond s tortured racial history however is much more difficult than toppling symbols of white supremacy This book explores these dynamics via a multidisciplinary framework of historical research public policy analysis and political analysis showing the inner dynamics of politics and governance in Richmond The authors reveal why change and progress has often been so difficult to achieve and why that matters with a focus on three fundamental policy areas education economic development and housing The result is a comprehensive assessment of urban governance in a major southern city in the early twenty first century as well as an accounting of the policy and human consequences of both its limited successes and its recurring failures

*Rethinking the SAT* Rebecca Zwick, 2013-04-15 Rethinking the SAT is a unique presentation of the latest thoughts and research findings of key individuals in the world of college admissions including the president of the largest public university system in the U S as well as the presidents of the two companies that sponsor college admissions tests in the U S The contributors address not only the pros and cons of the SAT itself but the broader question of who should go to college in the twenty first century

*United States Code* United States, 2013 The United States Code is the official codification of the general and permanent laws of the United States of America The Code was first published in 1926 and a new edition of the code has been published every six years since 1934 The 2012 edition of the Code incorporates laws

enacted through the One Hundred Twelfth Congress Second Session the last of which was signed by the President on January 15 2013 It does not include laws of the One Hundred Thirteenth Congress First Session enacted between January 2 2013 the date it convened and January 15 2013 By statutory authority this edition may be cited U S C 2012 ed As adopted in 1926 the Code established prima facie the general and permanent laws of the United States The underlying statutes reprinted in the Code remained in effect and controlled over the Code in case of any discrepancy In 1947 Congress began enacting individual titles of the Code into positive law When a title is enacted into positive law the underlying statutes are repealed and the title then becomes legal evidence of the law Currently 26 of the 51 titles in the Code have been so enacted These are identified in the table of titles near the beginning of each volume The Law Revision Counsel of the House of Representatives continues to prepare legislation pursuant to 2 U S C 285b to enact the remainder of the Code on a title by title basis into positive law The 2012 edition of the Code was prepared and published under the supervision of Ralph V Seep Law Revision Counsel Grateful acknowledgment is made of the contributions by all who helped in this work particularly the staffs of the Office of the Law Revision Counsel and the Government Printing Office Preface

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