

**NOTE:**

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- Consistent accuracy applies in ALL aspects of the marking memorandum.

**LET WEL:**

- Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk slegs die EERSTE poging.
- Volgehoue akkuraatheid is op ALLE aspekte van die memorandum van toepassing.

**QUESTION/VRAAG 1**

1.1.1	$x^2 - 9x + 20 = 0$ $(x - 4)(x - 5) = 0$  $x = 4$ or $x = 5$	✓ factors  ✓ $x = 4$ ✓ $x = 5$ (3)
1.1.2	$3x^2 + 5x - 4 = 0$  $x = \frac{-5 \pm \sqrt{(5)^2 - 4(3)(-4)}}{2(3)}$ $x = \frac{-5 \pm \sqrt{73}}{6}$ $x = -2,26$ or $x = 0,59$  <b>OR/OF</b>  $x^2 + \frac{5}{3}x + \frac{25}{36} = \frac{4}{3} + \frac{25}{36}$ $\left(x + \frac{5}{6}\right)^2 = \frac{73}{36}$ $x + \frac{5}{6} = \pm \frac{\sqrt{73}}{6}$ $x = \frac{-5 \pm \sqrt{73}}{6}$ $x = -2,26$ or $x = 0,59$	✓ standard form  ✓ substitution into correct formula   ✓ ✓ answers (4)   ✓ for adding $\frac{25}{36}$ on both sides  ✓ $x = \frac{-5 \pm \sqrt{73}}{6}$ ✓ ✓ answers (4)
1.1.3	$2x^{\frac{-5}{3}} = 64$ $x^{\frac{-5}{3}} = 32$ $x = (2^5)^{\frac{-3}{5}}$ $x = 2^{-3}$ or $\frac{1}{8}$ or 0,125  <b>OR/OF</b>	✓ dividing both sides by 2 ✓ $32 = 2^5$ or $64 = 2^6$ ✓ raising RHS to $\frac{-3}{5}$ ✓ answer (4)

# June 2015 Mathematics Memorandum Grade 12

**Princeton Review**

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## **June 2015 Mathematics Memorandum Grade 12:**

*PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic and Financial Literacy*  
OECD,2016-04-19 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills Breaking Barriers Stanley S. Litow,Tina Kelley,2021 Breaking Barriers shows how to redesign high schools so that all students can move on to college and successful careers In a negation of the American Dream a child s zip code is currently a far better predictor of success than hard work intelligence or resilience This book tells the story of a school model that focuses on equity and works to prove that all young people can achieve academic excellence given the right support P TECH Pathways in Technology Early College High School combines public high schools and community colleges in partnership with employers providing both opportunity and support for all students This innovative and effective approach eliminates barriers to replication by engaging all stakeholders The first P TECH which opened in a low income Brooklyn neighborhood is now a model for school reform Praised by President Obama and heads of nations its story is told through the voices of students who have shattered the myths about which students can succeed Breaking Barriers is a compelling read It shows that a clear pathway from school to college to career goes beyond an aspiration it s achievable and for all students The global success of P Tech schools is something education government and business leaders need to learn about and get behind Arne Duncan former United States Secretary of Education Breaking Barriers is a must read The P Tech story shows that quality schools leading to not just a high school diploma but college completion and career success are critical to our future This is the kind of opportunity and support that must be provided to all students regardless of income or race Darren Walker president Ford Foundation *PISA 2015 Assessment and Analytical Framework Science, Reading, Mathematic, Financial Literacy and Collaborative Problem Solving* OECD,2017-08-31 What is important for citizens to know and be able to do The OECD Programme for International Student Assessment PISA seeks to answer that question through the most comprehensive and rigorous international assessment of student knowledge and skills *Teaching and Learning Secondary School Mathematics* Ann Kajander,Jennifer Holm,Egan J Chernoff,2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united

vision supported by both research and professional dialog provides the first step *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

#### **Disability Rights and Religious Liberty in Education**

Bruce J. Dierenfield,David A. Gerber,2020-07-06 In 1988 Sandi and Larry Zobrest sued a suburban Tucson Arizona school district that had denied their hearing impaired son a taxpayer funded interpreter in his Roman Catholic high school The Catalina Foothills School District argued that providing a public resource for a private religious school created an unlawful crossover between church and state The Zobrests however claimed that the district had infringed on both their First Amendment right to freedom of religion and the Individuals with Disabilities Education Act IDEA Bruce J Dierenfield and David A Gerber use the Zobrests story to examine the complex history and jurisprudence of disability accommodation and educational mainstreaming They look at the family s effort to acquire educational resources for their son starting in early childhood and the choices the Zobrests made to prepare him for life in the hearing world rather than the deaf community Dierenfield and Gerber also analyze the thorny church state issues and legal controversies that informed the case its journey to the U S Supreme Court and the impact of the high court s ruling on the course of disability accommodation and religious liberty **Kids Count New Jersey ...** ,2016 **Appendix, Budget of the United States Government, Fy 2015**

Executive Office Of The President,Office of 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      *Condition of Education* Education Department,2015-06-25

The Condition of Education 2015 summarizes important developments and trends in education using the latest available data. The report presents 42 indicators on the status and condition of education. The indicators represent a consensus of professional judgment on the most significant national measures of the condition and progress of education for which accurate data are available. In addition, 3 spotlight indicators are featured that describe selected issues of current policy interest.

**After the Education Wars** Andrea Gabor,2018-06-12 The education wars have been demoralizing for teachers. After the Education Wars helps us to see a better way forward. Cathy N Davidson. The New York Times Book Review. After the Education Wars is an important book that points the way to genuine reform. Diane Ravitch, author of *Reign of Error* and *The Death and Life of the Great American School System*. A bestselling business journalist critiques the top down approach of popular education reforms and profiles the unexpected success of schools embracing a nimbler, more democratic entrepreneurialism. In an entirely fresh take on school reform, business journalist and bestselling author Andrea Gabor argues that Bill Gates, Eli Broad, and other leaders of the prevailing education reform movement have borrowed all the wrong lessons from the business world. After the Education Wars explains how the market based measures and carrot and stick incentives informing today's reforms are out of sync with the nurturing culture that good schools foster and contrary to popular belief at odds with the best practices of thriving twenty first century companies as well. These rich, detailed stories of real reform in action illustrate how enduring change must be deeply collaborative and relentlessly focused on improvement from the grass roots up. Lessons also learned from both the open source software and quality movements. The good news is that solutions born of this philosophy are all around us. From Brockton, Massachusetts, where the state's once failing largest high school now sends most graduates to college, to Leander, Texas, a large district where school improvement spurred by the ideas of quality guru W. Edwards Deming has become a way of life. A welcome exception to the doom and gloom canon of education reform. After the Education Wars makes clear that what's needed is not more grand ideas but practical and informed ways to grow the best ones that are already transforming schools.

**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 Legacy of J. William Fulbright** Alessandro Brogi, Giles Scott-Smith, David J. Snyder, 2019-08-13 This insightful collection of essays details the political life of one of the most prominent and gifted American statesmen of the twentieth century From his early training in international law to his five terms in the US Senate J William Fulbright 1905 1995 had a profound influence on US foreign policy and his vision for mutual understanding shaped the extraordinary exchange program bearing his name As a senator for Arkansas for thirty years and the longest serving chair of the Senate Foreign Relations Committee Fulbright was one of the most influential figures of United States politics His criticism of US involvement in Vietnam exemplified his belief in the effective management of international norms by international organizations including the United Nations which was the subject of his first bill in Congress Yet alongside his commitments to liberal internationalism and multilateral governance Fulbright was a southern politician who embraced the interests of the region's conservative white population This juxtaposition of biased and broad minded objectives shows a divide at the center of Fulbright's vision which still has consequences for America's global policies today This multidimensional volume covers Fulbright's development as a national and global voice on foreign relations as he wrestled with the political controversies of the US South during the civil rights movement worked with and challenged executive power and shaped the Fulbright program for educational exchange

**Discrimination based on Colour, Ethnic Origin, Language, Religion and Belief in Turkey's Education System** Nurcan Kaya, 2015-10-27 The Turkish government is urged to make a fundamental shift in its approach to education by Minority Rights Group International MRG in a new report A long standing focus on state building has been supplemented by increasing emphasis on religious teaching Both feature strongly in the education system in Turkey making schools a focus of discrimination The report Discrimination based on Colour Ethnic Origin Language Religion and Belief in Turkey's Education System reveals evidence of discrimination of minority groups and suggests comprehensive reforms to effectively ensure equality The national education system which for decades aimed to create young Turkish nationalists has in recent years become a vehicle for raising young religious Turkish nationalists says Nurcan Kaya Turkey Coordinator of Minority Rights Group International Religious education is compulsory from grade four in primary schools While some information on world religions has been introduced the emphasis remains on teaching Sunni Muslim religious practices Children of Jewish and Christian families may apply to opt out but the process can be cumbersome and in many schools alternatives are not provided for them Non Muslim students who have opted out can still find themselves having to remain in the religious instruction class or alternatively having to wander in the school corridor making them vulnerable to taunts from pupils and even teachers The opt out possibility is still not available to children of other minorities Another issue is mother tongue education In 2012 a new elective on the living languages and dialects in Turkey was introduced but due to various limitations minorities remain marginalised others in the education system Subsequent to the 2012 reform the report monitors discrimination in the formal

education system in the period of the academic year of 2014 2015 The findings are based on the field work of the Monitoring Discrimination in Education Network an alliance of 16 organizations working in Turkey The report compiles numerous cases of discrimination based on language religion ethnicity skin colour and the level of income In order to bring about a fundamental solution to these problems in the education system the government must prioritise developing an approach that sees all groups as equal and that responds to demands for rights based on such an understanding of equality says Kaya The report highlights that Turkey has no anti discrimination law or an equality commission to which victims of discrimination can apply The existing legislation contains no effective and accessible means of judicial remedies or compensation Therefore many discriminatory practices are not reported to school administrations The entire education system is based on Turkishness Non Turkish groups are either not referred to or referred in a negative way says Kaya Education system has played a significant role in deepening conflict in society The positive representation of other groups in the education system would contribute to social peace and harmony In order to resolve the many problems in the education system that the current approach causes the overall aim of government education policy should be cleared of ideological references and the protection of children s best interests and the right to education in line with international standards should be considered its fundamental goal says the report

**The Budget of the United States Government** United States. Office of Management and Budget,2015 *Budget of the United States Government* United States. Office of Management and Budget,2014

Handbook of Test Development Suzanne Lane,Mark R. Raymond,Thomas M. Haladyna,2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups

**Advances in Applications of Rasch Measurement in Science Education** Xiufeng Liu,William J. Boone,2023-07-31 This edited volume presents latest development in applications of Rasch measurement in science education It includes a conceptual introduction chapter and a

set of individual chapters The introductory chapter reviews published studies applying Rasch measurement in the field of science education and identify important principles of Rasch measurement and best practices in applications of Rasch measurement in science education The individual chapters contributed by authors from Canada China Germany Philippines and the USA cover a variety of current topics on measurement concerning science conceptual understanding scientific argumentation scientific reasoning three dimensional learning knowledge in use and cross cutting concepts of the Next Generation Science Standards medical education learning experiences machine scoring bias formative assessment and teacher knowledge of argument There are additional chapters on advances in Rasch analysis techniques and technology including R Bayesian estimation comparison between joint maximum likelihood JML and marginal maximum likelihood MML estimations on model data fit and enhancement to Rasch models by Cognitive Diagnostic Models and Latent Class Analysis The volume provides readers who are new and experienced in applying Rasch measurement with advanced and exemplary applications in the forefront of various areas of science education research

Moving the Needle on Children's Physical Activity - How to Best Promote More Movement? Mirko Brandes ,Jennifer Sacheck,2024-07-24 Globally physical inactivity is on the rise in most countries and according to the WHO it is considered one of the leading major public health risks As children s physical activity behaviors are conveyed into adulthood many interventions focus on establishing healthy physical activity habits in children to prevent the potential negative health outcomes associated with low physical activity over the life course The school environment provides an opportunity to reach the majority of children however physical activity promotion in schools can often be a challenge Barriers to the success of physical activity interventions include the physical social and economic environment competencies and workload of teachers as well as the perception that physical activity may interfere with the primary task of schools which is education Moreover the evaluation of physical activity interventions for children is challenging raising a discussion on how to best evaluate these interventions

*The Complete Book of Colleges, 2017 Edition* Princeton Review,2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review

**School Effectiveness and Improvement Research, Policy and Practice** Christopher Chapman,Paul Armstrong,Alma Harris,Daniel Muijs,David



Reynolds, Pam Sammons, 2012-03-12 This book provides a contemporary overview of school effectiveness and improvement. It charts the development theory and research in this area and looks at the contribution made to policy and practice. It also challenges some assumptions that have become ingrained into the theoretical and methodological traditions of the field. By challenging these orthodoxies it provides a framework that sets a new agenda and repositions the field to meet the emerging challenges of the twenty first century. It argues that traditional measures of school effectiveness are challenged as systems have attempted to adapt to a complex range of emerging agendas. New theoretical perspectives are required which consider education and a broader set of outcomes. This shift requires a rethink of how effectiveness and improvement have been understood by the field and a reconstruction by policy makers and practitioners. Attention must be given to promoting equity as well as effectiveness so that one school or student's gain no longer means another's loss. The field must develop new methodologies if inequities are to be challenged and a broader set of outcome measures are to be developed. The two questions guiding this book are: How can educational effectiveness and improvement research and practice support the development of a more equitable education service? What are the key indicators of educational effectiveness and improvement and what are the new methodologies required to facilitate a shift from school effectiveness and improvement to educational effectiveness and improvement? This book uses lenses of research policy and practice to explore these key questions and articulate what such a repositioning may look like and how it may be achieved. It will prove invaluable for teachers, school leaders and anyone involved in policy and educational research.

## Reviewing **June 2015 Mathematics Memorandum Grade 12**: Unlocking the Spellbinding Force of Linguistics

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