

# GR 10 MATHS – EXAM MEMOS

**M**  
**2**

## NATIONAL EXEMPLAR PAPER 1

$$1.1.1 \quad (m-2n)(m^2-6mn+n^2)$$

$$= m^3 - 6m^2n - mn^2 - 2m^2n + 12mn^2 + 2n^3$$

$$= m^3 - 8m^2n + 11mn^2 + 2n^3 \quad \leftarrow$$

$$1.1.2 \quad \frac{x^2+1}{x^2-x+1} - \frac{4x^2-3x-1}{4x+1}$$

$$= \frac{(x+1)(x^2-x+1)}{(x^2-x+1)} - \frac{(4x+1)(x-1)}{(4x+1)}$$

$$= (x+1) - (x-1)$$

$$= x+1-x+1$$

$$= 2 \quad \leftarrow$$

$$1.2.1 \quad 6x^2-7x-20$$

$$= (2x-5)(3x+4) \quad \leftarrow$$

$$1.2.2 \quad a^2+a-2ab-2b$$

$$= a(a+1) - 2b(a+1)$$

$$= (a+1)(a-2b) \quad \leftarrow$$

$$1.3 \quad 49 < 51 < 64 \quad \dots \text{ i.e. } 51 \text{ lies between } 49 \text{ and } 64$$

$$\therefore 7 < \sqrt{51} < 8 \quad \dots \text{ taking the square root}$$

$$\text{ i.e. } \sqrt{51} \text{ lies between } 7 \text{ and } 8 \quad \leftarrow$$



$$1.4 \quad \text{Let } x = 0.\dot{2}4\dot{5}$$

$$\therefore x = 0.245245\dots \quad \dots \text{ ①}$$

$$\times 1000) \therefore 1000x = 245.245245\dots \quad \dots \text{ ②}$$

$$\text{ ②} - \text{ ①}: \therefore 999x = 245$$

$$\therefore x = \frac{245}{999}$$

$\dots$  i.e.  $x$  can be expressed as  $\frac{a}{b}$  where

$$a \in \mathbb{Z} \text{ and } b \in \mathbb{Z}$$

$\therefore x$  is a rational number

$$2.1.1 \quad x^2-4x=21$$

$$\therefore x^2-4x-21=0$$

$$\therefore (x+3)(x-7)=0$$

$$\therefore x+3=0 \quad \text{ or } \quad x-7=0$$

$$\therefore x=-3 \quad \leftarrow \quad \therefore x=7 \quad \leftarrow$$

$$2.1.2 \quad 3x^{\frac{5}{3}}=96$$

$$+3) \therefore x^{\frac{5}{3}}=32$$

$$\therefore \left(x^{\frac{5}{3}}\right)^{\frac{3}{5}} = \left(2^5\right)^{\frac{3}{5}}$$

$$\therefore x = 2^3$$

$$\therefore x = 8 \quad \leftarrow$$



$$2.1.3 \quad \frac{2\sqrt{x}}{3S} = R$$

$$\times 3S) \therefore 2\sqrt{x} = 3SR$$

$$+2) \therefore \sqrt{x} = \frac{3SR}{2}$$

$$\text{ Square: } \therefore x = \frac{9S^2R^2}{4} \quad \leftarrow$$

$$2.2 \quad 6q+7p=3 \quad \dots \text{ ①}$$

$$2q+p=5 \quad \dots \text{ ②}$$

$$\text{ ②} \times 3: 6q+3p=15 \quad \dots \text{ ③}$$

$$\text{ ③} - \text{ ①}: \therefore 4p = -12$$

$$\therefore p = -3 \quad \leftarrow$$

$$\text{ ②}: \therefore 2q-3=5$$

$$\therefore 2q=8$$

$$\therefore q=4 \quad \leftarrow$$



$$3.1.1 \quad \text{The } 1^{\text{st}} \text{ 3 terms:}$$

$$3(3)+1 : 2(3) : 3(3)-7$$

$$\therefore 10 : 6 : 2 \quad \leftarrow$$

$$3.1.2 \quad \text{The difference is } -4$$

$$\therefore \text{ in } T_n = an+b: a=-4$$

$$\text{ \& } T_0 = b = 14 \quad \dots \text{ the term before the } 1^{\text{st}} \text{ term}$$

$$\therefore T_n = -4n + 14 \quad \leftarrow$$

# Grade10 Mathamatics Paper2 2014 September All Questions

**Joy Pullmann**



## **Grade10 Mathamatics Paper2 2014 September All Questions:**

*Teaching Mathematics Creatively* Linda Pound, Trisha Lee, 2015-04-24 This new and updated edition of *Teaching Mathematics Creatively* offers a range of strategies to enable trainee and practising teachers to take an innovative playful and creative approach to maths teaching It promotes creativity as a key element of practice and offers ideas to involve your students and develop knowledge understanding and enjoyment Exploring fresh approaches this text explains the role of play in bringing mathematics alive for children and teachers alike It identifies the power of story telling in supporting mathematical thinking examines cross curricular teaching and allows you to plan for teaching creatively Imaginative ideas underpinned by the latest research and theory include Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Giant maths how much food do you include on a giant shopping list Stimulating and accessible with contemporary and cutting edge practice at the forefront *Teaching Mathematics Creatively* includes a wealth of innovative ideas to enthuse teachers and enrich maths teaching This book is an essential purchase for any professional who wishes to embed creative approaches to teaching in their classroom ,

*Evidence Matters* ,2014      *The Mathematics Lesson-Planning Handbook, Grades K-2* Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education Your blueprint to planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning s lesson plan Or maybe you feel it isn t tailored enough for your students needs What do you do For that and more help is here *The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons* guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and

resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students [October 2019 Monthly Current Affairs with MCQs for Competitive Exams](#) Disha Experts,2019-09-25

**The Mathematics Lesson-Planning Handbook, Grades 3-5** Ruth Harbin Miles,Beth McCord Kobett,Lois A. Williams,2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education YOU are the architect in the mathematics classroom When it comes to mathematics lessons do you sometimes feel overly beholden to the required texts from which you teach Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do How often do you find yourself in the last minute online scramble for a great task activity that will capture your students interest and align to your state standards In *The Mathematics Lesson Planning Handbook Grades 3 5 Your Blueprint for Building Cohesive Lessons* you ll learn the streamlined decision making processes that will help you plan the focused research based standards aligned lessons your students need This daily reference offers practical guidance for when and how to pull together mathematics routines resources and effective teaching techniques into a coherent and manageable set of lesson plans This resource will Lead teachers through a process of lesson planning based on various learning objectives Set the stage for lesson planning using relatable vignettes Offer sample lesson plans for Grades 3 5 Create opportunities to reflect on each component of a mathematics lesson Suggest next steps for building a unit from the lessons Provide teachers the space and tools to create their own lesson plans going forward Based on years of classroom experience from seasoned mathematics educators this book brings together the just in time resources and practical advice you need to make lesson planning simple practical and doable From laying a solid foundation to choosing the right materials you ll feel confident structuring lessons that lead to high student achievement [The Mathematics Lesson-Planning Handbook, Grades 6-8](#) Lois A. Williams,Beth McCord Kobett,Ruth Harbin Miles,2018-12-28 Your blueprint to planning Grades 6 8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The

Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6-8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6-8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners

*The Education Invasion* Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K-12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation's schools Who benefits And how can citizens regain local self governance in education so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

[Open Learning and Teaching in Educational Communities](#) Christoph Rensing, Sara de Freitas, Tobias Ley, Pedro J. Muñoz-Merino, 2014-08-13 This book constitutes the refereed proceedings of the 9th European Conference on Technology Enhanced Learning EC TEL 2014 held in Graz Austria in September 2014 The 27 full papers and 18 short papers presented were carefully reviewed and selected from 165

submissions They address topics such as informal learning self regulated and self directed learning reflective learning inquiry based learning communities of learners and communities of practice learning design learning analytics personalization and adaptation social media computer supported collaborative learning massive open online courses schools and universities of the future     Educational Testing and Measurement Tom Kubiszyn,Gary D. Borich,2016-01-11 Educational Testing and Measurement Classroom Application and Practice 11th Edition by Tom Kubiszyn and Gary D Borich serves as an up to date practical reader friendly resource that will help readers navigate today s seemingly ever changing and complex world of educational testing assessment and measurement The 11th edition presents a balanced perspective of educational testing and assessment informed by developments and the ever increasing research base     An Age of Accountability John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree     **Helping Children Learn Mathematics** Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,Anna Rogers,Audrey Cooke,Sue Bennett,Bronwyn Ewing,John West,2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text     **The School Reform Landscape Reloaded** Christopher H. Tienken,2020-10-30 The School Reform Landscape Reloaded More Fear Myths and Lies peels back the curtain of school reform to examine the tensions that exist between the democratic and equitable system of public education and the emerging dual system based on elite interests aimed at profit making and decreasing education equity The author takes in depth and controversial look at school reform since the launch of Sputnik I Education reform events proposals and policies are examined through the lens of progressivist philosophy and critical social theory Some of the issues and policies

critiqued include the neoliberal corporate influence on education the Sputnik myth A Nation At Risk standardization charter schools and other relevant topics The author provides an evidence based view of the free market reform ideas and he pierces the veil of the new reform policies to find that they are not built upon empirical evidence but instead rest solidly on foundations of myth fear and lies Ideas for a new set of reform policies based on empirical evidence and supportive of a unitary equitable and democratic system of education are presented

**Students at Risk of School Failure** José Jesús Gázquez, José Carlos Núñez, 2018-10-18 The main objective of this Research Topic is to determine the conditions that place students at risk of school failure identifying student and context variables In spite of the fact that there is currently little doubt about how one learns and how to teach in some countries of the developed world there is still there is a high rate of school failure Although the term school failure is a very complex construct insofar as its causes consequences and development from the field of educational psychology the construct student engagement has recently gained special interest in an attempt to deal with the serious problem of school failure School engagement builds on the anatomy of the students involvement in school and describes their feelings behaviors and thoughts about their school experiences So engagement is an important component of students school experience with a close relationship to achievement and school failure Children who self set academic goals attend school regularly and on time behave well in class complete their homework and study at home are likely to interact adequately with the school social and physical environments and perform well in school In contrast children who miss school are more likely to display disruptive behaviors in class miss homework frequently exhibit violent behaviors on the playground fail subjects be retained and if the behaviors persist quit school Moreover engagement should also be considered as an important school outcome eliciting more or less supportive reactions from educators For example children who display school engaged behaviors are likely to receive motivational and instructional support from their teachers The opposite may also be true But what makes student engage more or less The relevant literature indicates that personal variables e g sensory motor neurodevelopmental cognitive motivational emotional behavior problems learning difficulties addictions social and or cultural variables e g negative family conditions child abuse cultural deprivation ethnic conditions immigration or school variables e g coexistence at school bullying cyberbullying may concurrently hinder engagement preventing the student from acquiring the learnings in the same conditions as the rest of the classmates

*Resources in Education* ,1995-04 *Advances in Mechanical Engineering* Alexander N. Evgrafov, 2021-11-23 This book draws together the most interesting recent results to emerge in mechanical engineering in Russia providing a fascinating overview of the state of the art in the field in that country which will be of interest to a wide readership A broad range of topics and issues in modern engineering is discussed including dynamics of machines materials engineering structural strength and tribological behavior transport technologies machinery quality and innovations The book comprises selected papers presented at the 10th conference Modern Engineering Science and Education held at the Saint Petersburg State

Polytechnic University in June 2021 with the support of the Russian Engineering Union The authors are experts in various fields of engineering and all of the papers have been carefully reviewed The book will be of interest to mechanical engineers lecturers in engineering disciplines and engineering graduates      **10th European Conference on Games Based Learning ,      First Grade Homeschooling** Greg Sherman,Thomas Bell,Terri Raymond,2014-06-15 Over 50 discussion questions and activities and 300 questions fill this comprehensive workbook The book covers science math and social science for first grade If you are homeschooling or if you are just trying to get extra practice for your child then you already know that social science workbooks and curriculum can be expensive Homeschool Brew is trying to change that We have teamed with teachers and parents to create books for prices parents can afford We believe education shouldn t be expensive Each subject may also be purchased individually      **Handbook of Research on Teaching** Drew Gitomer,Courtney Bell,2016-05-19 The Fifth Edition of the Handbook of Research on Teachingis an essential resource for students and scholars dedicated to the study of teaching and learning This volume offers a vast array of topics ranging from the history of teaching to technological and literacy issues In each authoritative chapter the authors summarize the state of the field while providing conceptual overviews of critical topics related to research on teaching Each of the volume s 23 chapters is a canonical piece that will serve as a reference tool for the field The Handbook provides readers with an unaparalleled view of the current state of research on teaching across its multiple facets and related fields      *The Connection Between Mathematical and Reading Abilities and Disabilities* Shelley Shaul,Joanna Christodoulou,Maria T. Sikkema-de Jong,2022-05-03



The Top Books of the Year Grade10 Mathamatics Paper2 2014 September All Questions The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Grade10 Mathamatics Paper2 2014 September All Questions : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

[https://staging.conocer.cide.edu/results/detail/HomePages/frankenstein\\_with\\_connections.pdf](https://staging.conocer.cide.edu/results/detail/HomePages/frankenstein_with_connections.pdf)

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solutions problem 1 please refer to hw 9 problem 2  $x_1 = 3, x_2 = 2, x_3 = 0, x_4 = 1$  is a basic feasible solution this solution has cost

equal to  $11\pi_1 = 0, \pi_2 = 0, \pi_3 = 3, \pi_4 = 2, \pi_5 = 3$  the cost is 11

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no calculators 20 points consider the linear integer programming problem max  $2x_1 + 4x_2$  subject to  $2x_1 + x_2 \leq 5, 4x_1 + 5x_2 \leq 10$

integer

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