

**GRADE 11 MATHEMATICS  
NOVEMBER EXAMINATION PAPER 2**

**QUESTION 1**

1.1 Calculate the following with the use of a calculator:

1.1.1  $\sin 43^\circ + \cos 47^\circ$  (1)

1.1.2  $\tan^2 50^\circ$  (1)

1.1.3  $\cot 33^\circ + \operatorname{cosec} 15^\circ$  (1)

1.2 If  $A = 34,3^\circ$  and  $B = 22,2^\circ$ , calculate the following to two decimal places:

1.2.1  $\sin (A + B)$  (2)

1.2.2  $\sec \left( \frac{A}{2} \right)$  (2)

1.3 Calculate the following without the use of a calculator:

1.3.1  $\sin 30^\circ + \cos 60^\circ$  (1)

1.3.2  $\tan 45^\circ + \cos 45^\circ$  (1)

1.3.3  $\cos 90^\circ + \sin 90^\circ$  (1)

[12]

**QUESTION 2**

Without the use of a calculator, answer the following questions:

2.1 Given  $\cos \theta = -\frac{1}{5}$  and  $0^\circ \leq \theta \leq 180^\circ$   
Use a diagram to determine the values of:

2.1.1  $\tan (180^\circ + \theta)$  (1)

2.1.2  $3\sin (\theta - 90^\circ)$  (2)

2.2 Simplify the following expression:  $\frac{\sin (-230^\circ)}{\cos (260^\circ)} + \frac{\cos (90^\circ)}{\sin (260^\circ + 40^\circ)}$  (5)

2.3 Prove that:  $\tan \theta \sqrt{\frac{1}{\sin^2 \theta} - 1} = 1$  (4)

2.4 Determine the general solution for:  $3\sin^2 \theta + 1 = \sin \theta$  (6)

[28]

**QUESTION 3**

3.1 Sketch on the same set of axes the graphs for:

$f(x) = -2\cos x$  and  $g(x) = \sin 2x$ , for the interval  $-90^\circ \leq x \leq 180^\circ$ .

Show the coordinates of the turning points and all axis intercepts. (5)

3.2 Study the following sketch and determine the value of  $\cos \theta - \cos \phi$ , without the use of a calculator.



(5)  
[10]

**QUESTION 4**

In the diagram below, the angle between line AB and the x-axis is  $\beta$ . The angle between line CD and the x-axis is  $\theta$ . A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are  $(\sqrt{3}, 2)$ .

The intercept point E, of lines AB and CD lies on the y-axis.  $\angle EDC = 63,69^\circ$

The equation of the line CD is given as:  $3x + 2y = 6$



4.1 Determine the coordinates of E. (2)

4.2 Calculate the numerical value of  $\alpha$ . (2)

4.3 Calculate the numerical value of  $\beta$ . (2)

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**F Rizvi**



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South African national bibliography, 1999 Classified list with author and title index

**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

**Multilingualism in Mathematics Education in Africa** Anthony A. Essien, 2023-12-14 This book brings together the first book collection of African research in mathematics education in multilingual societies and chronicles current research in different linguistic contexts across the African continent including Algeria Namibia Malawi Morocco Rwanda South Africa on issues of multilingualism in mathematics education but more importantly it foregrounds pertinent issues for future research With many of the authors building on earlier path breaking African research the book is a unique contribution of careful thinking through how linguistic diversity and multilingualism manifest in ways that differ from one geopolitical context to another This volume is an important contribution to the growing recognition of multilingualism as the global linguistic dispensation in mathematics education It is an invitation to how we might as an international community where more and more multilingualism is the norm rather than an exception pay more attention to the multilingual agency and capabilities of both students and teachers in order to better harness the epistemic potential of multiple languages in contexts of language diversity in mathematics education

**IMO Problems, Theorems, And Methods (In 4 Volumes)** Jinhua Chen, Bin Xiong, Tianqi Lin, Gengyu Zhang, Guangyu Xu, Zhenhua Qu, 2025-08-13 The problems in the International Mathematical Olympiad IMO are not only novel and interesting but also deeply rooted in profound mathematical context The team at the International Mathematical Olympiad Research Center at East China Normal University has compiled and studied problems from past IMOs dividing

them into four volumes based on the mathematical fields involved algebra geometry number theory and combinatorics These volumes are collectively titled IMO Problems Theorems and Methods Research on Reasoning with Data and Statistical Thinking: International Perspectives Gail F. Burrill, Leandro de Oliveria Souza, Enriqueta Reston, 2023-07-21 This book is derived from selected papers from the Fourteenth International Congress on Mathematical Education Topic Study Group 12 Teaching and Learning Statistics It describes recent research on curriculum pedagogy and outreach initiatives from countries as diverse as Brazil Chile Columbia Denmark Germany the Netherlands Spain Sweden Thailand Turkey the United Kingdom and the United States The book has a focus on the use of data in the teaching and learning of statistics across grade levels and begins with an overview of the status of statistics education and the use of data from seven different countries across the continents and the link between research and practice in those countries Because it contains specific examples of the research for example on the ways children learn the choice and implementation of tasks or the role of informal inference the book will be a great resource to those interested and involved in the teaching of statistics curriculum developers and statistics education researchers

**Bridging Research and Practice in Science Education** Eilish McLoughlin, Odilla E. Finlayson, Sibel Erduran, Peter E. Childs, 2019-08-27 This edited volume presents innovative current research in the field of Science Education The chapters deal with a wide variety of topics and research approaches conducted in a range of contexts and settings Together they make a strong contribution to knowledge on science teaching and learning The book consists of selected presentations from the 12th European Science Education Research Association ESERA Conference held in Dublin Ireland from 21st to 25th August 2017 The ESERA community is made up of professionals with diverse disciplinary backgrounds from natural sciences to social sciences This diversity enables a rich understanding of cognitive and affective aspects of science teaching and learning The studies in this book will stimulate discussion and interest in finding new ways of implementing and researching science education for the future The twenty two chapters in this book are presented in four parts highlighting innovative approaches to school science emerging identities in science education approaches to developing learning and competence progressions and ways of enhancing science teacher education This collection of studies showcases current research orientations in science education and is of interest to science teachers teacher educators and science education researchers around the world with a commitment to bridging research and practice in science teaching and learning

Social Studies Education in South and South East Asian Contexts Kerry J Kennedy, 2021-07-22 The education of young people is context bound This edited volume explores the contexts that characterise South and South East Asia and their influence on social studies education There is not a single context across this broad geographical expanse rather different religions different political systems and different values exert influences that create distinctive programmes that characterise different countries Yet there are also commonalities such as the post colonial nature of most of the countries portrayed in this book determined efforts at establishing new national communities and multiple value systems that lead to

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**Differentiated Instruction** Amy Benjamin, 2014-05-22 This book demonstrates how to make your classroom more responsive to the needs of individual students with a wide variety of learning styles interests goals cultural backgrounds and prior knowledge Focusing on grades 6 through 12 this book showcases classroom tested activities and strategies Differentiated Instruction A Guide for Middle and High School Teachers shows you how to vary your instruction so you can respond to the needs of individual learners The concrete examples in this book demonstrate how you can use differentiated instruction to clarify the content what you want students to know and be able to do the process how students are going to go about learning the content and the product how they will show you what they know This book is uniquely interactive It features Reflections to help you understand your teaching style and guide you towards developing habits of mind which result in effective differentiated instruction Also included is a chapter on teaching students whose native language is not English

**Handbook of Research on Science Education, Volume II** Norman G. Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community

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web aug 28 2023 the brown recluse spider belongs to a group of spiders commonly known as the fiddle back or violin spider because of the violin shaped marking on the dorsal surface of the cephalothorax fused head and thorax with the neck of the violin pointing toward the abdomen figure 1 the shape and intensity of the fiddle design may vary

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web the brown recluse spider *loxosceles reclusa* belongs to the genus *loxosceles* they are also known as fiddle back or violin spiders recluse spiders are a venomous genus of spider known for their venomous necrotic death of cells and living tissue bite

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web feb 8 2022 symptoms and stages of a brown recluse spider bite a brown recluse s venom can destroy blood vessels tissue and nerves as a result the skin tissue can die a phenomenon called skin

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web 2 days ago certainly identifying the spider is helpful as the brown recluse has a unique appearance with a yellow to brown color and a fiddle or violin shaped mark on its back he says they typically grow to between 1 and 1 1 2 inches long 2 5 to 3 5 centimeters friedman adds that these spiders like dark warm dry spaces like attics or under

**where do brown recluse spiders live worldatlas** - Apr 30 2022

web oct 9 2019 the brown recluse spider is a type of recluse spider with a range that is limited to the midwestern and south central united states the species has necrotic venom and its bite like other brown spiders requires immediate medical attention

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web brown recluse spiders belong to the sicariidae family the sicariidae family contains approximately 160 different spider species the most renowned members of which are the brown recluse spider and the six eyed sand spider brown recluse spiders reach adulthood in the span of one year and they typically live for two to four years in the wild

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web jan 26 2023 the brown recluse spider *loxosceles reclusa* is a part of the family *sicariidae* also known as six eyed *sicariid* spiders within the genus *loxosceles* there are actually 11 spiders native to the u s and four of them are known to be of risk to humans expect the following characteristics from *sicariid* spiders

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web for laypersons the most distinguishing feature of a brown recluse is a dark violin shaped mark on its back with the neck of the violin pointing toward the rear abdomen of the spider this feature is consistent in adult brown recluses but sometimes less obvious in younger spiders

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web may 1 2023 what are brown recluse spiders the brown recluse *loxosceles reclusa* is a small house spider about the size of a quarter it isn t aggressive so people who live in a house full of brown recluses may never be bitten they will bite when provoked however

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web nov 17 2022 the brown recluse spider *loxosceles reclusa* is one of the most poisonous spiders in the united states their venom is necrotic meaning that it destroys blood vessels causing tissue near the site of the bite to die getting bitten by one is uncommon and the bite alone rarely kills people

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web feb 3 2010 the brown recluse is a nocturnal spider and will roam at nighttime searching for prey while resting in the daylight hours in his web the web is a loose very irregular sticky set of threads that are colored an off white color brown recluse it is built in a corner which is largely undisturbed by outsiders brown recluses often hide in human

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web nov 3 2022 the brown recluse is part of the *loxosceles* genus of spiders members of this group have violin shaped markings on the top of their cephalothorax fused head and thorax where the legs are

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web the brown recluse is one of three spiders in north america with toxic venom the others being the black widow and the chilean recluse brown recluse spiders are usually between 6 and 20 millimetres 0 24 and 0 79 in but may grow larger while typically light to medium brown they range in color from whitish to dark brown or blackish gray

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web aug 29 2018 the brown recluse spider is also known as the violin or fiddle back spider it lives in midwestern and southeastern parts of the u s this spider is brown and has a darker violin shaped

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web aug 17 2023 brown recluse loxosceles reclusa venomous light tan or yellow spider most common in the western and southern united states it has a body length of about 7 mm 0 25 inch and a leg span of about 2 5 cm 1 inch on the front half of its body the cephalothorax it has a dark violin shaped brown recluse venomous bite symptoms

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web the recluse spiders loxosceles l o k ' s o s i l i : z also known as brown spiders fiddle backs violin spiders and reapers is a genus of spiders that was first described by r t lowe in 1832 they are venomous spiders known for their bite which sometimes produces a characteristic set of symptoms known as loxoscelism

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web apr 24 2023 brown recluses are small spiders with light brown bodies and legs 6 eyes and fine hair on their legs true to their name brown recluses favor sheltered out of the way places and typically aren't out in plain sight brown recluse spiders are native to the southeastern and midwest united states

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web a brown recluse has a dark brown violin shape on the cephalothorax the portion of the body to which the legs attach the neck of the violin points backward toward the abdomen however what you should look at instead is the eye pattern of 6 eyes in pairs with a space separating the pairs most spiders have 8 eyes in two rows of four

**brown recluse bite symptoms treatment stages cleveland clinic** - Nov 06 2022

web overview what is a brown recluse spider the brown recluse spider is an eight legged arachnid that is tan to dark brown in color with a violin marking on its back that can range anywhere from 1 4 inch to 1 2 inch long younger spiders or those that have just molted won't have the violin marking

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web the brown recluse or violin spider has an upside down violin thus the nicknames fiddleback spider and violin spider this brown recluse was trapped in an office light fixture and freed in the woods by a friendly receptionist brown recluse or violin spider hiding under a cushion ultra closeup of a female brown recluse spider