

**GRADE 9 MATHEMATICS  
 NOVEMBER EXAMINATION PAPER 2**

**QUESTION 1**

1.1 Draw a rhombus and indicate all properties in mathematical language. (5)

1.2 Choose the correct answer and write only the LETTER on your answer sheet.

1.2.1 Which of the following statements is NOT true about a kite?

- A. The longer diagonal bisects the shorter diagonal at  $90^\circ$
- B. The shorter diagonal bisects the longer diagonal at  $90^\circ$
- C. Diagonals bisect each other
- D. Diagonals are equal

1.2.2 An isosceles triangle has a top angle of  $70^\circ$ . The individual value of the equal angles will be:

- A.  $60^\circ$
- B.  $55^\circ$
- C.  $70^\circ$
- D.  $65^\circ$

1.2.3 A translation is:

- A. Any horizontal or vertical change in position of a shape.
- B. A mirror image of the original position.
- C. An enlargement of the original shape.
- D. A reduction of the original shape.

1.2.4 What is the length of AC in the figure below:



- A. 16cm
- B. 15cm
- C. 13cm
- D. 5cm

1.2.5 A point on a shape has coordinates  $(-2; 3)$ , what would the new coordinates be after a  $y' = -x$  reflection

- A.  $(3; -2)$
- B.  $(2; 3)$
- C.  $(-3; 2)$
- D.  $(3; 2)$

(9)

(10)

**QUESTION 2: GEOMETRY**

Use the following structure to answer this question:

| Statement: | Reason: |
|------------|---------|
|------------|---------|

2.1 In the diagram below  $\angle ASE = 65^\circ$  and  $\angle DCF = 32^\circ$



2.1.1 Calculate the size of  $\angle BAC$ . Give reasons and show your calculations.

(3)

# Ana Grade 9 Question Paper Mathematics

**Jianpan Wang**



## **Ana Grade 9 Question Paper Mathematics:**

**2029 Economic Crisis and Civil War in South Africa** The Messenger,2014-07-17 The book analyses the current problems in South Africa Many people are seeing that unemployment and the plight of the masses will reach the point of no return The gradual decline of the economy is due to various factors but is exacerbated by corruption and lack of responsibility and accountability South Africa has reached a 50 year low in productivity due to affirmative action BEE and the perception of life owes me The current war between management and labour for higher wages will continue The threat of retrenchments will become a reality All the gold mines will follow The falling gold price predicts this All of this leads to only one thing our mutual enemy unemployment

**Spectrum Test Prep, Grade 2** Spectrum,2015-01-05 Spectrum Test Prep Grade 2 includes strategy based activities for language arts and math test tips to help answer questions and critical thinking and reasoning The Spectrum Test Prep series for grades 1 to 8 was developed by experts in education and was created to help students improve and strengthen their test taking skills The activities in each book not only feature essential practice in reading math and language arts test areas but also prepare students to take standardized tests Students learn how to follow directions understand different test formats use effective strategies to avoid common mistakes and budget their time wisely Step by step solutions in the answer key are included These comprehensive workbooks are an excellent resource for developing skills for assessment success Spectrum the best selling workbook series is proud to provide quality educational materials that support your students learning achievement and success

*For the Learning of Mathematics* ,1997

**Resources in Education** ,2001

**Education in Brazil An International Perspective** OECD,2021-06-30 The Education in Brazil An International Perspective report was developed drawing on internationally comparative data on education in Brazil in particular the extensive range of data collected by the OECD through its surveys The experiences of other countries and how they have tackled challenges similar to those now faced by Brazil along with the insights from consultations with key national experts also inform the analysis

Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes) Jianpan Wang,2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge

recent developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education      **Resources in Education** ,1997

**Classroom Connections, Grade 1** ,2015-05-04 Classroom Connections brings math language arts and science together around a common skill This book for first graders covers vowel sounds synonyms and antonyms homophones reading comprehension addition subtraction measurement and critical thinking The Classroom Connections series provides math language arts and science practice for children in kindergarten to grade 3 Each page ties three subject areas together around a common skill giving children a fresh way to look at important concepts Children are also provided with extension activities tips and hints related to each skill to encourage additional learning and real world application      **Competition**

**Science Vision** ,2004-11 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

Directory and Program of the Session on Mathematics American Society for Engineering Education. Summer School for Engineering Teachers,1931      Math Advantage Grace M. Burton,1999      **Everyday Mathematics Teacher Lesson**

**Guide Volume 1 Grade 4** Edm,University of Chicago. School Mathematics Project,2008 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support      **Annual Performance Plan** Mpumalanga (South Africa). Department of Education,2015

*Report of Her Majesty's Commissioners Appointed to Inquire Into the Revenues and Management of Certain Colleges and Schools, and the Studies Pursued and Instruction Given Therein* Great Britain. Commissioners Appointed to Inquire into the Revenues and Management of Certain Colleges and Schools, and the Studies Pursued and Instruction Given Therein,1864

**Appendix** Great Britain. Commissioners appointed to inquire into the revenues and management of certain colleges and schools, and the studies pursued and instruction given therein,1864      **Guide to Microforms in Print** ,1997

**Documentation Bulletin of the National Research Centre** ,1958      **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,1989      *Mathematical Reviews* ,2006      **Managing the Mean Math Blues** Cheryl Ooten,Emily Meek,2003 Dear Reader My fondest wish is that this book will assist you to

succeed with math Feel free to read it in any order that works for you This is a book for you to control The techniques and exercises are here to help you not to overwhelm or discourage you If you feel overwhelmed or discouraged back off and return later But do return The rewards are many and great I have included information I have found useful to math students during 30 years of teaching so pick and choose Refer to this book when you need a new and different strategy Dawn Bigelow a superb third grade teacher I taught beside told me that when she went to a conference she wanted to return with three new ideas More than three and she would be too overwhelmed to try them Fewer than three and she had wasted her time going to the conference Three was the magic number When Dawn returned to her third graders with three new ideas she could easily incorporate them into the classroom system she already had in progress You have a system in progress for learning You only need three new ideas each time you come to this book More than that and you will be overwhelmed Fewer than that and you will be wasting your time Modify your learning system slowly and surely Incorporate winning ideas and strategies that fit who you are and what you want to accomplish Skim over the Contents Mark the topics that look the most promising Chapter 2 along with the list below can direct you according to your needs Features of this book and their purpose are Introduction and Chapter 1 Motivation to excite you and help you gather courage to confront the blues Chapter 2 Explanation of routes through this book based on your needs Chapters 3 6 Effective methods to control overwhelming negative thoughts and feelings about math or life Chapters 7 9 Self discovery about who you are and how you learn best Chapters 10 13 14 and 15 Study skills to use in math class Chapters 11 and 12 Discussion of shyness and classroom teacher issues Chapter 16 Problem solving strategies Chapter 17 Test taking strategies Pushing Your Limits Chapters 1 17 Journal activities to help you question ponder plan and evaluate your math life Mastering Math s Mysteries Chapters 3 6 Practice with numbers and patterns Mastering Math s Mysteries Chapters 7 13 Fraction practice to shore up skills that math students tend to avoid Mastering Math s Mysteries Chapter 15 Practice with spatial visualization Mastering Math s Mysteries Chapters 14 16 and 17 Practice with strategies discussed in the chapters More Mastering Math s Mysteries in the Appendix More challenging math practice for the brave of heart Solutions to Mastering Math s Mysteries exercises in the Appendix This book is not designed as a math textbook but rather to accompany a math textbook or to prepare you for a math textbook The math exercises here are just for you to wet your feet Because I know that every math student brings different experiences and needs I had difficulty deciding which math topics to include I chose fractions because they are universally avoided and disliked The potential exists for you to feel terrific soon if you face them Be patient with yourself as you wade into new territory Being curious and willing to experiment can help you to swim sooner than you ever thought possible Use a life preserver when you need it and never swim alone My best Cheryl Ooter

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