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°

        B   The shorter diagonal bisects the longer diagonal at 90°

        C   Diagonals bisect each other

        D   Diagonals are equal

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

        A   60°

        B   55°

        C   70°

        D   65°

    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 $(3; 2)$ (5)

[18]

QUESTION 2: GEOMETRY

Use the following structure to answer this question:

Statement:	Reason:

2.1 In the diagram below $A\hat{B}E = 65°$ and $D\hat{C}F = 32°$

    2.1.1 Calculate the size of $B\hat{A}C$. Give reasons and show your calculations. (3)

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C Cleary

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Neutrosophic Solution is presented by the authors A Novel Image Segmentation Algorithm Based on Neutrosophic Filtering and Level Set is given in seventh paper Paper eight is about to Neutrosophic Crisp Points and Neutrosophic Crisp Ideals In the next paper Several Similarity Measures of Neutrosophic Sets are discussed The authors introduced An Extended TOPSIS Method for the Multiple Attribute Decision Making Problems Based on Interval Neutrosophic Sets in the last paper

Future Earth Diana Dalbotten,Gillian Roehrig,Patrick Hamilton,2014-06-23 Earth now is dominated by both biogeophysical and anthropogenic processes as represented in these two images from a simulation of aerosols Dust red from the Sahara sweeps west across the Atlantic Ocean Sea salt blue rises into the atmosphere from winds over the North Atlantic and from a tropical cyclone in the Indian Ocean Organic and black carbon green from biomass burning is notable over the Amazon and Southeast Asia Plumes of sulfate white from fossil fuel burning are particularly prominent over northeastern North America and East Asia If present trends of dust emissions and fossil fuel burning continues in what we call the Anthropocene epoch then we could experience high atmospheric $CO2$ levels leading to unusual warming rarely experienced in Earth s history This book focuses on human influences on land ocean and the atmosphere to determine if human activities are operating within or beyond the safe zones of our planet s biological chemical and physical systems Volume highlights include Assessment of civic understanding of Earth and its future Understanding the role of undergraduate geoscience research and community driven research on the Anthropocene Effective communication of science to a broader audience that would include the public the K 12 science community or populations underrepresented in the sciences Public outreach on climate education geoscience alliance and scientific reasoning Future Earth is a valuable practical guide for scientists from all disciplines including geoscientists museum curators science educators and public policy makers   The Game Believes in You Greg Toppo,2015-04-21 USA Today journalist and former public school teacher Greg Toppo defies the technology resistant attitude of today s educators and shows how game designers are revolutionizing learning   **Global Action on School Library Guidelines** Barbara A. Schultz-Jones,Dianne Oberg,2015-06-16 This book celebrates the new IFLA School Library Guidelines and shows how the Guidelines can be used in improving school library services Each chapter describes innovative initiatives for developing implementing and promoting school library guidelines The book provides inspiration and guidance for the creation of national school library standards and for the development and use of standards and guidelines to change school library practice to define the teaching role of school librarians to guide the initial preparation of school librarians and to advocate for school library services Contributors to the book come from around the world Australia Canada Ethiopia France Malaysia Norway Poland Portugal Spain Sweden and the United States Their work illustrates the shared commitment of school librarians around the world to teaching and learning for all as envisioned in the IFLA UNESCO School Library Manifesto   **Kochi Journal of Mathematics** ,2014   **Fundamenta Mathematicae** ,2013   **Ricerche di matematica** ,2014   **Hokkaido Mathematical Journal** ,2016   *African Governance Report III 2013* ,2013 The African

Governance Report the most comprehensive report on governance in Africa assesses and monitors the progress of African countries on governance identifies capacity gaps in governance institutions and proposes policies and strategic interventions to improve governance on the continent This third edition of the Report while continuing to monitor governance trends adopts a thematic approach elections and the management of diversity in Africa Elections are central to democratic governance and the political management of diversity in plural societies While elections are held with greater regularity in Africa their content and quality remains suspect in many countries with Africa s rich diversity deployed as a combustive tool in electoral conflicts Elections have often triggered conflict with violence tensions acrimonies and sharp elite divisions surrounding electoral processes and outcomes a worrying trend for Africa s democratic future The Report investigates elections in the face of managing diversity in Africa It recommends major electoral institutional political and constitutional reforms to enable elections to facilitate the democratic management of diversity while significantly improving their quality and credibility These include reform of the party system to make it more inclusive and democratic a move to more proportional electoral systems and an increase in the autonomy and effectiveness of election management boards The Report argues that regional and subregional initiatives and frameworks for elections democracy and governance have to be implemented and monitored to improve electoral performance and promote democratic consolidation and stability Page 4 of cover   *Canadian Journal of Earth Sciences* ,2014   *Illinois Reading Council Journal* ,2013   **Journal of Technology Education** ,2014   **Recent Development on Material Science and Environmental Material** Yu Cao,2013-09-10 Selected peer reviewed papers from the 2013 International Conference on Application of Materials Science and Environmental Materials AMSEM 2013 July 5 7 2013 Zhangjia Jie China   **Journal of Knot Theory and Its Ramifications** ,2013   The Evangelical Herald ,1923   Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013   **Oxford University Gazette** University of Oxford,1911   *The Journal of Integral Equations and Applications* ,2015

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