

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For help, read: General Instructions

Solved

INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- Any rough work should be done on separate paper.

1. Solve the simultaneous equations by the method of elimination. Give your answers correct to 2 decimal places.

$$\begin{cases} 2x + 3y = 12 \\ 4x - y = 5 \end{cases}$$

2. The diagram shows three triangles, A, B and C.

3. The diagram shows a circle with centre O. The points A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z are marked on the circumference of the circle.

10. The table shows information about different species.

Species	Number of species	Area
Species A	10	100
Species B	20	200
Species C	30	300

Species A

$$10 \times 10 = 100$$
$$20 \times 20 = 400$$
$$30 \times 30 = 900$$

Species B

$$10 \times 10 = 100$$
$$20 \times 20 = 400$$
$$30 \times 30 = 900$$
$$40 \times 40 = 1600$$
$$50 \times 50 = 2500$$
$$60 \times 60 = 3600$$
$$70 \times 70 = 4900$$
$$80 \times 80 = 6400$$
$$90 \times 90 = 8100$$
$$100 \times 100 = 10000$$

Maths Paper Oct Nov 2013 9712

Brendan G. Carr



Maths Paper Oct Nov 2013 9712:

Students' and Teachers' Values, Attitudes, Feelings and Beliefs in Mathematics Classrooms Hanna Palmér, Jeppe Skott, 2017-12-04 This contributed volume is an exciting product of the 22nd MAVI conference which presents cutting edge research on affective issues in teaching and learning math The teaching and learning of mathematics is highly dependent on students and teachers values attitudes feelings beliefs and motivations towards mathematics and mathematics education These peer reviewed contributions provide critical insights through their theoretically and methodologically diverse analyses of relevant issues related to affective factors in teaching and learning math and offer new tools and strategies by which to evaluate affective factors in students and teachers mathematical activities in the classroom Among the topics discussed The relationship between proxies for learning and mathematically related beliefs Teaching for entrepreneurial and mathematical competences Prospective teachers conceptions of the concepts mean median and mode Prospective teachers approach to reasoning and proof The impact of assessment on students experiences of mathematics Through its thematic connections to teacher education professional development assessment entrepreneurial competences and reasoning and proof Students and Teachers Values Attitudes Feelings and Beliefs in Mathematics Classrooms proves to be a valuable resource for educators practitioners and students for applications at primary secondary and university levels Making School Maths Engaging Anne Prescott, Mary Coupland, Marco Angelini, Sandra Schuck, 2020-10-19 This book provides an account of a large scale national STEM initiative in Australia the Maths Inside Project which is designed to increase secondary school students engagement and participation in mathematics The project s modules include videos illustrating how scientists use mathematics to find solutions to real world problems as well as themed activities linked to the school curriculum for mathematics Outlining the current debates concerning mathematics education in Australia and beyond the book describes the development and implementation of the modules to guide their use by teachers in year 8 12 Australian mathematics classrooms It concludes with a discussion of the research showing how the project increased student engagement The book discusses the partners involved in the project including scientists a national mathematics teachers association and the authors university It also offers insights into how to embark on pedagogical improvement through collaboration between individual institutional stakeholders Providing details of the modules to enable teachers and teacher educators to help their students better understand and utilise the curriculum resources of Maths Inside the book is a useful resource for educators around the globe wanting to make mathematics engaging topical and relevant for secondary school students **Raising the Impact of Education Research in Africa** Charl C. Wolhuter, 2018-12-01 The low demonstrable effect of education research done in South Africa in particular and Africa in general continues to be a problem in scientific records in the educational sciences This scholarly collected work addresses this obstacle and focuses on recommendations from scholars in different sectorial categories in the field of education Scholars from a variety of sub fields within the educational sciences reflect on

this particular matter revisiting the history of research and research outcomes and offering informed recommendations based on in depth investigation and analysis of aspects of the various discourses within the relevant sub fields The scope of the content of this collected work centres on the issue of the lack of scientific records concerning the scientific raising of the impact of education research The book aims at making a specific contribution to the educational sciences by stimulating scholarly discussion around how to increase the recording of the significance of educational research done in Africa and in South Africa in particular and to redirect the research agenda into the direction of making more impact Impact is conceptualised to mean both scholarly impact that is being cited and being used as foundation for theory building and for further research and practical impact that is improvement of practice teaching and learning in education institutions at all levels

Who's Who in the Midwest Marquis Who's Who, Marquis Who's Who Staff, 1998 Profiles the most influential men and women from America's heartland Contains over 16 000 biographies of people working in Illinois Indiana Iowa Kansas Michigan Minnesota Missouri Nebraska North Dakota Ohio South Dakota and Wisconsin in the United States and from Manitoba and western Ontario in Canada

The Top Books of the Year Maths Paper Oct Nov 2013 9712 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : 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 skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Maths Paper Oct Nov 2013 9712 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Maths Paper Oct Nov 2013 9712 : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling 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 compelling 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 exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Maths Paper Oct Nov 2013 9712

1. Understanding the eBook Maths Paper Oct Nov 2013 9712
 - The Rise of Digital Reading Maths Paper Oct Nov 2013 9712
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper Oct Nov 2013 9712
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper Oct Nov 2013 9712
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper Oct Nov 2013 9712
 - Personalized Recommendations
 - Maths Paper Oct Nov 2013 9712 User Reviews and Ratings
 - Maths Paper Oct Nov 2013 9712 and Bestseller Lists
5. Accessing Maths Paper Oct Nov 2013 9712 Free and Paid eBooks
 - Maths Paper Oct Nov 2013 9712 Public Domain eBooks
 - Maths Paper Oct Nov 2013 9712 eBook Subscription Services
 - Maths Paper Oct Nov 2013 9712 Budget-Friendly Options
6. Navigating Maths Paper Oct Nov 2013 9712 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper Oct Nov 2013 9712 Compatibility with Devices
 - Maths Paper Oct Nov 2013 9712 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper Oct Nov 2013 9712
 - Highlighting and Note-Taking Maths Paper Oct Nov 2013 9712
 - Interactive Elements Maths Paper Oct Nov 2013 9712
8. Staying Engaged with Maths Paper Oct Nov 2013 9712

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Maths Paper Oct Nov 2013 9712
- 9. Balancing eBooks and Physical Books Maths Paper Oct Nov 2013 9712
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper Oct Nov 2013 9712
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper Oct Nov 2013 9712
 - Setting Reading Goals Maths Paper Oct Nov 2013 9712
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper Oct Nov 2013 9712
 - Fact-Checking eBook Content of Maths Paper Oct Nov 2013 9712
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web the easiest colors to observe during the flame test were that of copper chloride and lithium chloride for potassium chloride there was a purple color close to the stick but the flame remained orange for the majority of the burn time the unknown slat burned orange but also had a slight blue color close to the stick

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web each element had a unique flame spectrum much like its own colored line fingerprint as with any suspect the fingerprint identified the element beyond question this method of using light to make identifications became known as spectroscopy

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farbigkeit performing calculations on determine the frequency and energy of the emitted

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web use crayons or colored pencils to color in the spectrum in the box on your report sheet to show the correlation between

color and wavelength part ii flame tests you will conduct flame tests to observe the flame emission colors for the following

solutions lino3 cu no3 2 sr no3 2 ba no3 2 kno3 and nano3 since nitrates do not emit color you

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web task use a flame test to determine which ion salt produces the red color then using a spectroscope match the bright line

spectra from red fireworks to a substance in your material list then make your final determination of what ion in the material

list causes red fireworks procedure

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web energy and matter answered worksheet the experiment conducted aimed to give students the opportunity to determine

different metal ions in liquid and solid compounds by observing the color of the flames they give off when

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web sep 22 2021 pre laboratory assignment flame tests of metal cations in this lab you will perform flame tests of several different metal cations the characteristic colors observed are due to emitted electromagnetic radiation from the excited metal cations in this lab how do the metal cations become excited

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web feb 10 2021 section 1 purpose and summary observe the color of light emitted when a sample of a salt of a metal cation is heated use the characteristic color of flames to identify ions in various laboratory samples observe the emission spectra of various elements in gas discharge tubes

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