

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x - 1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- [P1]**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve x if: $\frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{\sqrt{2^4 \cdot 3^{2x+1}}}{2^{2x+1}}$$

(4)

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)

[P4]

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)
- 3.3 Given $T_n = 13 - 3n$:
- 3.3.1 Which term in the series would be equal to -17 ? (3)
- 3.3.2 Determine the numerical value for the 11th term. (2)
- 3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3
		
		
		

James says if he increases the pattern number by one, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Prove your answer.

(5)

[P4]

QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)

[P]

Maths Paper 1 Grade 11

JE Gale



Maths Paper 1 Grade 11:

Maths Handbook and Study Guide Grade 11 Kevin Smith,2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back [X-kit FET Grade 11 Mathematics](#) Irma Kühn,2007 *Maths Handbook & Study Guide Grade 12* Kevin Smith,2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back *Mathematics 2* Kunihiro Kodaira, See the blurb for Japanese Grade 10 [Milliken's Complete Book of Math Reproducibles - Grade 1](#) ,2009-09-01 This activity book of over 110 ready to use reproducible pencil to paper worksheets are ideal for enrichment or for use as reinforcement Perfect for use at school or as homework they feature basic math skills including fractions decimals measurement time money and much more [Oswaal ISC 10 Sample Question Papers Class 12 \(Set of 5 Books\) Physics, Chemistry, Maths, English Paper 1 & 2 For 2025 Board Exam \(Based On The Latest CISCE/ICSE Specimen Paper\)](#) Oswaal Editorial Board,2024-09-09 Description of the product Fresh Relevant with the Latest ICSE Specimen Paper 2025 Score Boosting Insights with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 5 Solved 5 Self Assessment Papers with Hints Online Courses with Oswaal 360 Courses and sample Papers to enrich the learning journey further Strictly as per the Latest Syllabus Specimen Paper 2025 Issued by CISCE Includes Competency Focused questions based on Bloom s Taxonomy Create Evaluate Analyse Apply Understand and Remember Official Marking Scheme Decoded **Key Maths GCSE** ,2002 These Teacher Files are designed to supplement and support the material covered at GCSE [Canadian Books in Print. Author and Title Index](#) ,1975 **Wordsearches** Adrian Wallwork,2017-12-12 On the train on the beach on the sofa many people in

all parts of the world enjoy doing wordsearches If you are studying English and want to learn and practise vocabulary related to various topics then this book is for you The topics reflect the kinds of everyday conversations that you might have both with native and non native speakers of English The topics are also those that are typically tested in English examinations e g TOEFL Cambridge First Certificate Advanced IELTS and Trinity Each chapter begins with a list of questions to enable you to have a conversation about a particular topic in various situations on a social occasion e g a work dinner a conference lunch a party in the classroom during an English lesson when chatting either face to face or online and during an English oral exam After the list of questions you will find a Word List associated with the topic and exercises to test your knowledge of less common words The final aim is then to find the words from the Word List in the related Wordsearch Easy English is a series of books to help you learn and revise your English with minimal effort You can improve your English by reading texts in English that you might normally read in your own language e g jokes personality tests lateral thinking games and wordsearches doing short exercises to improve specific areas grammar and vocabulary i e the areas that tend to lead to the most mistakes the aim is just to focus on what you really need rather than overwhelming yourself with a mass of rules many of which may have no practical daily value Other books in the Easy English series include Wordsearches Widen Your Vocabulary in English Test Your Personality Have Fun and Learn Useful Phrases Word games Riddles and Logic Tests Tax Your Brain and Boost Your English Top 50 Grammar Mistakes How to Avoid Them Top 50 Vocabulary Mistakes How to Avoid Them

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GCSE Maths David Bowles,Paul Metcalf,2002 Written specifically for the Foundation and Intermediate tier GCSE for the AQA Modular GCSE Specification B This clearly presented book will help all students looking to achieve a grade C in GCSE maths An ideal stand alone resource for students doing the GCSE course in one year including students resitting modules

Resources in Education ,2001-10 *X-kit FET Grade 12 MATHEMATICS* ,2008

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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

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web in the short story gore by sarah ellis the character of amy is able to effectively deceive her brother lucas that there is an alien like creature in the house in order to get her book back soon after their parents go out to do the usual saturday grocery lucas grabs the book from amy s hands and hides inside the washroom

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web short story gore by sarah ellis how we can relate to this story images how people can relate to this story is that everyone has that one person that always finds a way to annoy them rather it be a family member or a really good friend character selection the character that i ve selected is lucas lucas is a

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web feb 15 2015 setting time this was taken place in amy and lucas house specifically the front door washroom living room and their hallway this story takes place on a saturday afternoon the peace keeping forciers are out at mega foods doing the saturday shop ellis 5 initiating incident marcus denouement

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web nov 3 2017 outline 11 frames reader view gore by sarah ellis main conflict the main conflict in the story was when the brother lucas took his sisters favourite book and ran to the washroom to keep amy from getting the book they fought for a good amount of time also the type of conflict that was happening in the story was person vs person

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web in numerous ways amy reveals herself to be resourceful throughout the short story gore by sarah ellis her resourcefulness is demonstrated by her imaginative spirit and capability to think outside of the box her intelligence and her willingness to persevere even when faced with obstacles throughout the journey

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web two 2 specific details from the story to support your opinion we get a biased view of lucas because the narration is in 1st person the reader doesn t get to see lucas point of view maybe amy bullies him about academics amy doesn t really have good opinion of her brother lucas is more like an unevolved thugoid

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