

**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  $x(x + 10) > -25$  (4)
- 1.1.5  $x^{\frac{1}{2}} = 4$  (3)
- 1.1.6  $2^x - 2^{x-1} = 12$  (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  $x = -1 \pm 2\sqrt{2}$  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:  $\frac{2x}{x+1} < 0$ . Graphically represent your answer. (5)

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

$$\frac{\sqrt{x^2 y^2 + 4}}{\sqrt{2x^2 + 4}}$$

(4)

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

(3)

**[P4]**

**QUESTION 3**

- 3.1 The first three terms of a linear series, is given as:  $3x - 2, x + 9, 2x + 5$
- 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  $-176$ ? (3)
- 3.3.2 Determine the numerical value for the 11<sup>th</sup> term. (2)

- 3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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  $a$ . (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]**

# Mathematics Grade 11 Caps Papers And Solutions

**RC Schank**



## **Mathematics Grade 11 Caps Papers And Solutions:**

*Mathematics* Marilyn Buchanan,2014      **Math Made Easy: Fifth Grade** John Kennedy,2001-06-13 Specifically designed for fifth grade age children ages ten 11 this home study workbook carefully developed by educational advisors conforms to U S educational curricula Covers the entire range of primary math learning and includes a completion certificate gold star stickers and a progress chart Full color illustrations      **The Important Role of the Early School Years for Reading, Writing and Math Development: Assessment and Intervention at School Entry** Christoph Weber,Martin Schöfl,Susanne Seifert ,Natalie Förster,2025-12-01 School entry is a critical life event for young children Students begin this new phase of their lives with very different abilities due to their individual characteristics previous experiences and education While some children hardly know any letters or numbers others can already read write and calculate quite fluently To optimally support young learners according to their respective starting conditions teachers must recognize students learning prerequisites and adapt instruction to students needs To this end both valid and economical assessments as well as effective and differentiated interventions are needed This Research Topic addresses new developments in early assessments and assessment based interventions around the time of school entry from the last year before enrollment until second grade In particular this Research Topic aims to bring together research that directly contributes to assessing children s difficulties and providing evidence based support We highly welcome new innovative approaches from the fields of education didactics and psychology that focus on the assessment and assessment based instruction in reading writing and maths Any empirical studies that help to improve the assessment and assessment based interventions for the competencies mentioned are welcome We are looking for empirical quantitative or qualitative studies dealing with the target group of children around the age of school entry last year of kindergarten to second grade elementary school that include at least one of the following topics the presentation or testing of new assessment procedures that focus on performance in and prerequisites for reading writing and maths assessment based interventions both whole class or individual approaches in reading writing and maths the co development of sub skills in reading writing and maths and consequences for assessment and intervention Please note that manuscripts without prior submission of an abstract will not be considered for the research topic      *Annual Report Mpumalanga* (South Africa). Department of Education,2014      **Resources in Education** ,1993      Michigan School Moderator ,1887      **Math Educ** ,2007 Contains abstracts in the field of mathematics education extracted from documents worldwide      **Mathematics** ,2006      **Finite Mathematics and Its Applications** Larry Joel Goldstein,David I. Schneider,Martha J. Siegel,1998 This well written text features a wide range of problems sets including graphing utility and Excel problems The current edition has extensively revised mathematics of finance and statistics      **Math Plus, 1994** HB Staff,1994      **Pe Practice Standardized Test Gr3 Ma99** Harcourt Brace,1998-08      Scott Foresman-Addison Wesley Mathematics ,2008      **Mathematics** ,201?      Army-Navy-Air Force Register and Defense Times ,1930      **The City**

**Record** ,1903      **William J. Clinton: bk. 2 June 27 to October 11, 2000** United States. President (1993-2001 :  
Clinton),2001      **Railway and Engineering Review** ,1904      **Congressional Record** United States. Congress,1999  
**Farm Life and Agricultural Epitomist** ,1911      *The Journal of the Armed Forces* ,1894

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