

GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2

QUESTION 1

The following frequency table provides the number of goals scored by the Proteas netball team during 50 matches in 2018.

Number of goals	Frequency	Cumulative Frequency
$5 < x \leq 10$	6	b
$10 < x \leq 15$	a	14
$15 < x \leq 20$	13	27
$20 < x \leq 25$	9	c
$25 < x \leq 30$	7	43
$30 < x \leq 35$	d	48
$35 < x \leq 40$	e	50

- 1.1 Determine the values a to e. (5)
 1.2 Calculate the average goals scored in 2018. (2)

(7)

QUESTION 2

The table below shows the data for the heart rate per minute of ten males. Their heart rate is checked before they cycle for 10 min (x) and after they have exercised (y).

	1	2	3	4	5	6	7	8	9	10
Heart rate before	85	90	125	80	85	112	93	118	95	100
Heart rate after	95	100	135	125	125	145	90	175	150	120

- 2.1 Represent the data as a scatter diagram on the grid provided. (3)
 2.2 Calculate the mean heart rate before AND after exercise. (2)
 2.3 Determine the formula for the least regression line to 4 decimal places. (2)
 2.4 Calculate the correlation coefficient to 4 decimal places AND comment on the strength of it. (2)

- 2.5 Draw the least squares regression line on your scatter diagram. (2)

(7)
 [18]

QUESTION 3

The table below shows the distances (in kilometers) travelled daily by a sales representative for 21 working days in a certain month.

131	132	140	140	141	144	146
147	149	150	151	159	167	169
169	172	174	175	178	187	189

- 3.1 Calculate the mean distance travelled by the sales representative. (2)
 3.2 Write down the five-number summary for this data. (4)
 3.3 Draw the box-and-whisker diagram for this set of data. (2)
 3.4 Calculate the standard deviation of the distance travelled. (2)

[10]

QUESTION 4

- 4.1 The diagram shows P, A, Q, R and S lies on the circumference of the circle with centre O. SB is a tangent at S and RSWP. ACWS and RWP are straightlines.



Proof that:

- 4.1.1 $SB \parallel RP$ (4)
 4.1.2 $2P^{\circ} = W^{\circ}, A^{\circ}$ (5)
 4.1.3 $A^{\circ} = \frac{m^{\circ}}{m+1} + W^{\circ}$ (4)

Mathematics Papernovember 2memo

Rosina Ehmann



Mathematics Paper November 2 memo:

Third Symposium Proceedings. New Ways of Teaching and Learning Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 to 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide

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Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 1981

Interpellations, Questions and Replies of the National Assembly South Africa. Parliament (1994-). National Assembly, 1997

[Interpolation for Normal Bundles of General Curves](#) Atanas Atanasov, Eric Larson, David Yang, 2019-02-21 Given n general points p_1, p_2, \dots, p_n in \mathbb{P}^r it is natural to ask when there exists a curve $C \subset \mathbb{P}^r$ of degree d and genus g passing through p_1, p_2, \dots, p_n In this paper the authors give a complete answer to this question for curves C with nonspecial hyperplane section This result is a consequence of our main theorem which states that the normal bundle N_C of a general nonspecial curve of degree d and genus g in \mathbb{P}^r with $d \geq g + r$ has the property of interpolation i.e. that for a general effective divisor D of any

degree on C either H0 NC D 0 or H1 NC D 0 with exactly three exceptions *Hecke Operators and Systems of Eigenvalues on Siegel Cusp Forms* Kazuyuki Hatada,2021-06-18 View the abstract **Simulation and Optimization in Finance** Dessislava A. Pachamanova,Frank J. Fabozzi,2010-09-23 An introduction to the theory and practice of financial simulation and optimization In recent years there has been a notable increase in the use of simulation and optimization methods in the financial industry Applications include portfolio allocation risk management pricing and capital budgeting under uncertainty This accessible guide provides an introduction to the simulation and optimization techniques most widely used in finance while at the same time offering background on the financial concepts in these applications In addition it clarifies difficult concepts in traditional models of uncertainty in finance and teaches you how to build models with software It does this by reviewing current simulation and optimization methodology along with available software and proceeds with portfolio risk management modeling of random processes pricing of financial derivatives and real options applications Contains a unique combination of finance theory and rigorous mathematical modeling emphasizing a hands on approach through implementation with software Highlights not only classical applications but also more recent developments such as pricing of mortgage backed securities Includes models and code in both spreadsheet based software RISK Solver Evolver VBA and mathematical modeling software MATLAB Filled with in depth insights and practical advice Simulation and Optimization Modeling in Finance offers essential guidance on some of the most important topics in financial management Report of the Commissioners Great Britain. Royal Commission on the Civil Service, 1912-1915,1913 **Debates of the National Assembly (Hansard)** South Africa. Parliament (1994-). National Assembly,1997 SIAM Journal on Applied Mathematics Society for Industrial and Applied Mathematics,1966 Contains research articles on mathematical methods and their applications in the physical engineering biological and medical sciences Image Understanding Workshop ,1994 *Resources in Education* ,1994 **Proceedings of the ... Workshop on Automated Deduction** , *Research in Education* ,1968 **Operations research** ,1958 Vertical File Index ,1970 **Associations' Publications in Print** ,1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations **Mechanical & Chemical Engineering Transactions** ,1965 **General Catalogue of Printed Books to 1955** British Museum. Dept. of Printed Books,1967

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