

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 $2P^{\circ} = W^{\circ}, AS$ (5)

4.1.3 $AS^{\circ} = \frac{m^{\circ}}{m^{\circ}} + W^{\circ}$ (4)

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Lingsheng Yao



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Table of Contents Maths Paper 2 Memorandum Novembr 2014

1. Understanding the eBook Maths Paper 2 Memorandum Novembr 2014
 - The Rise of Digital Reading Maths Paper 2 Memorandum Novembr 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 2 Memorandum Novembr 2014
 - 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 2 Memorandum Novembr 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 2 Memorandum Novembr 2014
 - Personalized Recommendations

- Maths Paper 2 Memorandum Novembr 2014 User Reviews and Ratings
- Maths Paper 2 Memorandum Novembr 2014 and Bestseller Lists
- 5. Accessing Maths Paper 2 Memorandum Novembr 2014 Free and Paid eBooks
 - Maths Paper 2 Memorandum Novembr 2014 Public Domain eBooks
 - Maths Paper 2 Memorandum Novembr 2014 eBook Subscription Services
 - Maths Paper 2 Memorandum Novembr 2014 Budget-Friendly Options
- 6. Navigating Maths Paper 2 Memorandum Novembr 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 2 Memorandum Novembr 2014 Compatibility with Devices
 - Maths Paper 2 Memorandum Novembr 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 2 Memorandum Novembr 2014
 - Highlighting and Note-Taking Maths Paper 2 Memorandum Novembr 2014
 - Interactive Elements Maths Paper 2 Memorandum Novembr 2014
- 8. Staying Engaged with Maths Paper 2 Memorandum Novembr 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 2 Memorandum Novembr 2014
- 9. Balancing eBooks and Physical Books Maths Paper 2 Memorandum Novembr 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 2 Memorandum Novembr 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 2 Memorandum Novembr 2014
 - Setting Reading Goals Maths Paper 2 Memorandum Novembr 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 2 Memorandum Novembr 2014
 - Fact-Checking eBook Content of Maths Paper 2 Memorandum Novembr 2014

- 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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