

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	158	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.

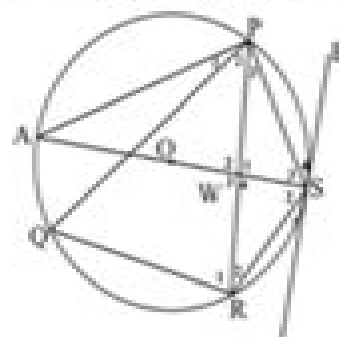
131	132	140	140	141	144	146
147	149	150	151	159	167	169
169	172	174	175	178	187	189

- 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 straight lines.



Proof that:

- 4.1.1 $SB \parallel RP$ (4)
 4.1.2 $2\hat{P} = \hat{W}S, \hat{A}\hat{S}$ (2)
 4.1.3 $\hat{A}\hat{S} = \frac{m\hat{P}}{m\hat{S}} + \hat{W}\hat{S}$ (4)

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Table of Contents Grade 12 Mathematics Paper November 20memorandum

1. Understanding the eBook Grade 12 Mathematics Paper November 20memorandum
 - The Rise of Digital Reading Grade 12 Mathematics Paper November 20memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Mathematics Paper November 20memorandum
 - 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 Grade 12 Mathematics Paper November 20memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Mathematics Paper November 20memorandum
 - Personalized Recommendations
 - Grade 12 Mathematics Paper November 20memorandum User Reviews and Ratings
 - Grade 12 Mathematics Paper November 20memorandum and Bestseller Lists

5. Accessing Grade 12 Mathematics Paper November 20memorandum Free and Paid eBooks
 - Grade 12 Mathematics Paper November 20memorandum Public Domain eBooks
 - Grade 12 Mathematics Paper November 20memorandum eBook Subscription Services
 - Grade 12 Mathematics Paper November 20memorandum Budget-Friendly Options
6. Navigating Grade 12 Mathematics Paper November 20memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 Mathematics Paper November 20memorandum Compatibility with Devices
 - Grade 12 Mathematics Paper November 20memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 Mathematics Paper November 20memorandum
 - Highlighting and Note-Taking Grade 12 Mathematics Paper November 20memorandum
 - Interactive Elements Grade 12 Mathematics Paper November 20memorandum
8. Staying Engaged with Grade 12 Mathematics Paper November 20memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 Mathematics Paper November 20memorandum
9. Balancing eBooks and Physical Books Grade 12 Mathematics Paper November 20memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 Mathematics Paper November 20memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12 Mathematics Paper November 20memorandum
 - Setting Reading Goals Grade 12 Mathematics Paper November 20memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12 Mathematics Paper November 20memorandum
 - Fact-Checking eBook Content of Grade 12 Mathematics Paper November 20memorandum
 - 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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