

# **GRADE 12 MATHEMATICS** NOVEMBER EXAMINATION PAPER 2

#### QUESTION 1

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

Number of goels	Frequency	Cumulative Frequency b		
5 c r 5 10				
10 < x ≤ 15	4.	14		
15 < x ≤ 10	13	27		
20 < r ≤ 25	9	e.		
25 < r ≤ 30	7	43		
30 < r ≤ 35	- 1	48		
35 c x ≤ 40		50		

Determine the values a to a

(5)

Calculate the average goals scored in 2018.

m

#### QUESTION 2

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

1 2 3 4 5 6 7 8

meantain before	=	50	125	10	15	112	-	100	85	100
reartiple after	100	100	133	125	135	345	90	175	160	190

Represent the data a a scatter diagram on the grid provided.

Calculate the mean heartrate before AND after everoise.

Determine the formula for the least regression line to 4 decimal places.

217 100

Calculate the correlation coefficient to 4 decimal places AVID comment on the strengts of it.

(0) DOM

#### QUESTION 3

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

131 147	132	140	140	141	144	146
147	149	150	151	159	147	169
169	177	174	179	179	197	199

Calculate the mean distance travelled by the sales representative.

2.5 Draw the least squares regression line on your scatter diagram.

**(2)** 

Write down the five-number summary for this data.

Draw the box-and-whisker diagram for this set of data. 3.4 Calculate the standard deviation of the distance travelled:

1900

(H)

#### QUESTION 4

4.1 The diagram shows P.A.Q.R and Siles on the circumfrance of the circle with centre O. SB is a tangent at S and RAWAP. ACMS and RAP are straightlines.



#### Proof that

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- 1. Understanding the eBook Grade 12 Mathematics Paper November 201memorandum
  - The Rise of Digital Reading Grade 12 Mathematics Paper November 201memorandum
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Grade 12 Mathematics Paper November 201memorandum
  - 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 201memorandum
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Grade 12 Mathematics Paper November 201memorandum
  - Personalized Recommendations
  - Grade 12 Mathematics Paper November 201memorandum User Reviews and Ratings
  - Grade 12 Mathematics Paper November 201memorandum and Bestseller Lists
- 5. Accessing Grade 12 Mathematics Paper November 201memorandum Free and Paid eBooks
  - Grade 12 Mathematics Paper November 201memorandum Public Domain eBooks
  - Grade 12 Mathematics Paper November 201memorandum eBook Subscription Services
  - Grade 12 Mathematics Paper November 201memorandum Budget-Friendly Options
- 6. Navigating Grade 12 Mathematics Paper November 201memorandum eBook Formats

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- Grade 12 Mathematics Paper November 201memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 12 Mathematics Paper November 201memorandum
  - Highlighting and Note-Taking Grade 12 Mathematics Paper November 201memorandum
  - Interactive Elements Grade 12 Mathematics Paper November 201memorandum
- 8. Staying Engaged with Grade 12 Mathematics Paper November 201memorandum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 12 Mathematics Paper November 201memorandum
- 9. Balancing eBooks and Physical Books Grade 12 Mathematics Paper November 201memorandum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 12 Mathematics Paper November 201memorandum
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 12 Mathematics Paper November 201memorandum
  - Setting Reading Goals Grade 12 Mathematics Paper November 201memorandum
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 12 Mathematics Paper November 201memorandum
  - $\circ\,$  Fact-Checking eBook Content of Grade 12 Mathematics Paper November 201memorandum
  - 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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