

# **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		
\$-c x ≤ 10		b		
10 < r ≤ 15	4	14		
15 < x ≤ 20	13	27		
20 c r s 25	9	e e		
25 C # £ 30	7	43		
20 < r ≤ 25		48		
35 c x ≤ 40		50		

Determine the values a to a

(5)

1.2 Calculate the average goals scored in 2018.

ØI.

### QUESTION 2

337 664

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

rearrang before	=	50	125	10	15	102	-51	110	85	199
rearists after	20	100	133	125	135	145	90	175	150	100

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.

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

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

(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.

1311 1427 269	132	140	140	141	144	146
147	149	150	131	1.99	147	149
389	177	174	1.75	179	197	119

Calculate the mean distance travelled by the sales representative.

**(2)** 

Witte down the five-number summary for this data.

(H)

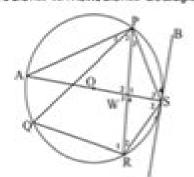
Onswithe box-and-whisker diagram for this set of data.

3.4 Calculate the standard deviation of the distance travelled.

1900

### 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

$$4.12 \ SR^2 = WS.AS$$
 (5)

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# **Table of Contents Mathematics Grade 12 Papers**

- 1. Understanding the eBook Mathematics Grade 12 Papers
  - The Rise of Digital Reading Mathematics Grade 12 Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics Grade 12 Papers
  - 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 Mathematics Grade 12 Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics Grade 12 Papers
  - Personalized Recommendations
  - Mathematics Grade 12 Papers User Reviews and Ratings
  - Mathematics Grade 12 Papers and Bestseller Lists
- 5. Accessing Mathematics Grade 12 Papers Free and Paid eBooks
  - Mathematics Grade 12 Papers Public Domain eBooks
  - Mathematics Grade 12 Papers eBook Subscription Services
  - Mathematics Grade 12 Papers Budget-Friendly Options
- 6. Navigating Mathematics Grade 12 Papers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mathematics Grade 12 Papers Compatibility with Devices
  - Mathematics Grade 12 Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Grade 12 Papers
  - Highlighting and Note-Taking Mathematics Grade 12 Papers
  - Interactive Elements Mathematics Grade 12 Papers
- 8. Staying Engaged with Mathematics Grade 12 Papers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mathematics Grade 12 Papers
- 9. Balancing eBooks and Physical Books Mathematics Grade 12 Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Grade 12 Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Grade 12 Papers
  - Setting Reading Goals Mathematics Grade 12 Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Grade 12 Papers
  - Fact-Checking eBook Content of Mathematics Grade 12 Papers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - o Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - $\circ \ \ Integration \ of \ Multimedia \ Elements$
  - Interactive and Gamified eBooks

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