

**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)

**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.

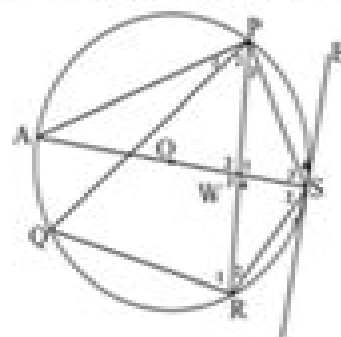
131	132	140	140	141	144	146
147	149	150	151	159	167	169
169	172	174	175	178	187	189

- 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)

[18]

**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  $2\angle P = \angle WPS$  (2)

4.1.3  $\angle C = \frac{m\angle P}{2} + \angle W$  (4)

# Maths Grade 12 Paper 2

**JagranJosh**



## Maths Grade 12 Paper 2:

**X-kit FET Grade 12 MATHEMATICS** ,2008      **Maths Handbook & Study Guide Grade 12** Kevin Smith,2017-11-01

The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back      *Mathematics 2* Kunihiro Kodaira, See the blurb for Japanese Grade 10      *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 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      *Last 5+1 Year's CBSE Class 12th Mathematics Solved Question Papers - eBook* JagranJosh,2017-11-22 This

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**Teaching and Learning** Douglas Grouws, 2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook's twenty nine chapters are complete resources for both current and past work in that particular area

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