

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.

ØI.

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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Resources in Education ,2001-10 The Education Gazette Cape of Good Hope (South Africa). Education The Education Gazette of the Province of the Cape of Good Hope (South Department, 1975 Africa). Education Department, 1921 Debates South Africa. Parliament. House of Assembly, 1984 Vols 1 cover debates of the House of the 1st Parliament of the Republic of South Africa **Research in Education** ,1970 Diaest of Education Statistics, 1995 Contains information on a variety of subjects within the field of education statistics including the number of schools and colleges enrollments teachers graduates educational attainment finances Federal funds for education libraries international education and research and development Library Journal ,1969-10 **Contemporary Perspectives on** Mathematics in Early Childhood Education Olivia Saracho, Bernard Spodek, 2008-02-01 This volume provides a comprehensive critical analysis of the research in mathematics education for young children The researchers who conducted the critical analysis focused on the relationship between 1 mathematics learning in the early years and domain specific approaches to cognitive development 2 the children's social learning and their developing understanding of math and 3 the children's learning in a natural context and their understanding of mathematics concepts The work of these scholars can help guide those researchers who are interested in pursuing studies in early childhood mathematics in a specific area of study This volume will facilitate the research conducted by both novice and expert researchers The volume has accomplished its major goals which consists of critically analyzing important research in a specific area that would be most useful in advancing the field and provide recommendations for both researchers and educators Library Journal Melvil Dewey, Karl Brown, Frederick Leypoldt, Bertine Emma Weston, Helen E Wessells, 1969 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Juniorlibraries 1954 May 1961 Issued The Publishers Weekly ,1995 also separately

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