

# **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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**Karin Nielsen-Saines** 

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