

# **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		
5-c x ≤ 10		b		
$10 < r \le 15$	4	14		
15 < x ≤ 20	13	27		
20 < r≤25	0	e e		
25 < r ≤ 30	7	43		
30 < r ≤ 35		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	114	85	130
reartists after	20	100	155	125	138	145	90	173	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

$$4.12 \text{ SP}^2 = WS.AS$$
 (5)

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**ML Yell** 

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