GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2

QUESTION 1

The following frequency table provides the number of goals scored by the Protea 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)
[7]

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	9	10
Heartrate before	68	90	125	80	88	112	83	110	85	130
Heartrate after	98	100	158	128	138	148	90	178	160	190

2.1 Represent the data as a scatter diagram on the grid provided. (3)

2.2 Calculate the mean heartrate 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 strenght of it. (2)

2.5 Draw the least squares regression line on your scatter diagram. (7)
[16]

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)
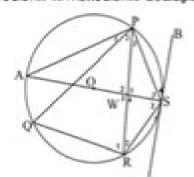
3.2 Write down the five-number summary for this data. (4)

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)
[10]

QUESTION 4

4.1 The diagram shows P,A,Q,R and S lies on the circumfrence of the circle with centre O. SB is a tangent at S and RSWP, AOWS and PWP are straightlines.

Proof that:

4.1.1 $SB \parallel SP$ (4)

4.1.2 $SR^2 = WS \cdot AS$ (5)

4.1.3 $AZ = \frac{bw^2}{ws} + WS$ (4)

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South Africa. Parliament (1994-). National Assembly

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Papers Great Britain. Parliament. House of Commons,1913   Report Commonwealth Shipping Committee,1913

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     Image Understanding Workshop ,1994   **Operations research** ,1958   **Vertical File Index** ,1970   Research in Education ,1968   **Special Course on Subsonic/transonic Aerodynamic Interference for Aicraft** ,1983   Library Bulletin ,1969   Mechanical & Chemical Engineering Transactions ,1965   *General Catalogue of Printed Books to 1955* British Museum. Dept. of Printed Books,1967

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