

**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)

(7)

**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.

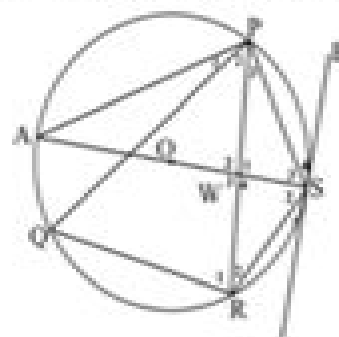
|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| 131 | 132 | 140 | 140 | 141 | 144 | 146 |
| 147 | 149 | 150 | 151 | 159 | 167 | 169 |
| 169 | 172 | 174 | 175 | 178 | 187 | 189 |

- 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)

[10]

**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 straightlines.



Proof that:

- 4.1.1  $SB \parallel RP$  (4)  
 4.1.2  $2\hat{P} = \hat{WCS}$  (2)  
 4.1.3  $\hat{AS} = \frac{m\hat{P}}{m} + \hat{WCS}$  (4)

# Grade 12 Mathematics Paper Common Test

**Mark Steyvers**



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web oct 9 2023 second law of thermodynamics the entropy of an isolated system not in equilibrium will tend to increase over time approaching a maximum value at equilibrium  $\Delta S_{\text{total}} = \Delta S_{\text{system}} + \Delta S_{\text{surrounding}}$  the second law of thermodynamics introduces the concept of entropy