

**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.  
 1.2 Calculate the average goals scored in 2018.

(5)  
 (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.  
 2.2 Calculate the mean heart rate before AND after exercise.  
 2.3 Determine the formula for the least regression line to 4 decimal places.  
 2.4 Calculate the correlation coefficient to 4 decimal places AND comment on the strength of it.

(3)  
 (2)  
 (2)  
 (2)

- 2.5 Draw the least squares regression line on your scatter diagram.

(7)  
 (14)

**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.  
 3.2 Write down the five-number summary for this data.  
 3.3 Draw the box-and-whisker diagram for this set of data.  
 3.4 Calculate the standard deviation of the distance travelled.

(2)  
 (4)  
 (2)  
 (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 straight lines.



Proof that:

- 4.1.1  $SB \parallel RP$   
 4.1.2  $SP^2 = WS \cdot AS$   
 4.1.3  $AS = \frac{RP^2}{WS} + WS$

(4)  
 (5)  
 (4)

# Memorandum Of Mathematics Grade 12 November 2013

**Rebecca Zwick**



## **Memorandum Of Mathematics Grade 12 November 2013:**

**Caught in the Act** Cyril Julie,Lorna Holtman,Charles R. Smith,2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers

**Competency-Based Education** Rose L. Colby,2019-01-02 Competency Based Education introduces educators to a new model for anytime anywhere schooling and provides tools and curriculum resources for redesigning the traditional structures of K 12 schools Based on pioneering work across multiple states the book shows how educators can design central elements of competency based education including performance tasks personal learning plans and grading systems to meet the needs and interests of all students Rose L Colby provides critical tools for creating these elements in collaborative teams and engaging stakeholders such as educators parents and community members The book incorporates case studies and voices from the field and examines the variety of competency models that schools have adopted highlighting the benefits for students Competency Based Education provides a much needed resource at a time when states districts and schools are working to implement competency based models and experimenting with new accountability systems that include evidence of learning beyond standardized tests

*Rethinking the SAT* Rebecca Zwick,2013-04-15 Rethinking the SAT is a unique presentation of the latest thoughts and research findings of key individuals in the world of college admissions including the president of the largest public university system in the U S as well as the presidents of the two companies that sponsor college admissions tests in the U S The contributors address not only the pros and cons of the SAT itself but the broader question of who should go to college in the twenty first century

**Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1973

## **Memorandum Of Mathematics Grade 12 November 2013** Book Review: Unveiling the Power of Words

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