



**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**EDUCATION**

SEKHUKHUNE EAST EDUCATION DISTRICT – THE DISTRICT ON THE RISE

**MATHEMATICAL LITERACY**

**GRADE 11**

**MID-TERM TEST**

**TERM 2**

**Duration: 1 Hour    TOTAL MARKS: 50**

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**DURATION: 1 HOUR**

The paper consists of 6 pages, including the cover page and answer sheet.

### INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions. Answer ALL the questions.
2. Show ALL calculations.
3. Round off all final answers appropriately according to the context unless stated otherwise.
4. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise
5. Indicate units of measurement where applicable.
6. Maps and diagrams are not necessarily drawn according to scale, unless stated otherwise.
7. Write neatly and legibly.



**QUESTION 1**

- 1.1 Determine the cost (in dollar) of one United Arab Emirates Dirham (AED). (2)
- 1.2 Hence, state whether the US dollar is stronger or weaker than the United Emirates Dirham. Motivate your answer. (3)
- 1.3 Verify, by showing ALL calculations which purchasing option is the cheapest option. (6)
- 1.4 Name one disadvantage of buying a computer online. (2)

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**QUESTION 2**

A telephone company has a landline service and a cell phone service. The cell phone service is either on contract or prepaid.

The phone tariffs are shown below:

Description	Landline	Cell phone tariffs	
		Contract	Prepaid
Monthly rental	R150	-	-
Normal call rates	R0,50	R1 per minute	R2 per minute
Other charges	-	R250 per month	-
Benefits	200 free minutes	100 free minutes per month	-

[adapted from: www.municipalities.com]

Use the information and the table above to answer the following questions:

- 2.1 Explain the word tariff in this context. (2)
- 2.2 Write a formula that you can use to calculate the amount you would pay every month if you use:
- (a) The landline (4)
  - (b) The pre-paid service
- 2.3 How much would you pay in a month if you used 300 minutes and you are subscribed to the:
- (a) Contract cell phone service (6)
  - (b) Prepaid cell phone service

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**QUESTION 3**

3.1 Magada employs 10 workers by his school workshop. Below are the weekly wages for 10 employees:

R500 R450 R350 R750 R350 R450 R750 R450 R400 R300

Calculate

the  
following:

3.1.1 The mean wage (3)

3.1.2 The median wage (3)

3.1.3 The modal wage (2)

3.1.4 The range of the wages. (2)

3.2 Magada increases the salary of each worker by 7,4%.

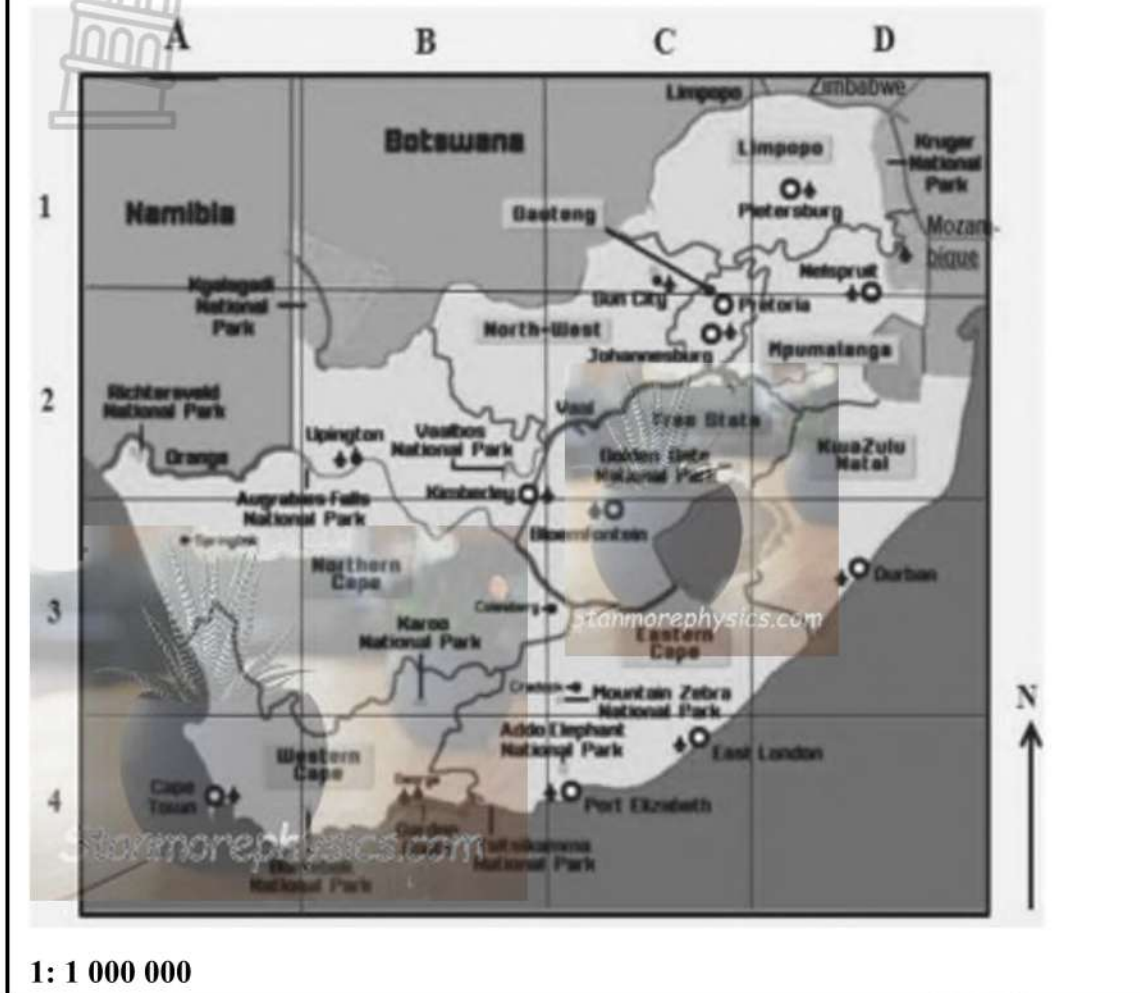
3.2.1 Calculate how much will the lowest paid worker get at the end of the month. (3)

3.2.2 Determine the probability of workers earning wages of R805,50. (2)

**[15]**

**QUESTION 4**

Below is the map of South Africa and parts of Namibia, Botswana, Zimbabwe and Mozambique. The map shows the major parks of South Africa.



- 4.1 Write down the grid reference for kruger National Park. (2)
- 4.2 In which general direction is Cape Town from Durban? (2)
- 4.3 Name the type of scale give above. (2)
- 4.4 The map distance from Sun City to Johannesburg is 174mm. Use given scale to calculate the actual distance in kilometres. (4)

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**TOTAL: 50 MARKS**



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**MARKING GUIDELINE**

**TERM 2**

**MARKS: 50**

**DATE: 13 MAY 2025**

**This Memorandum consists of 3 pages including the cover page.**

1.1	\$809,99 √√		
1.2	1 US dollar = R14,16 1 AED = 3,85 √ 14,16 is more than 3,85 √ US dollar is stronger √		
1.3	In store is R16999,00 1:14,16 √                      1:3,85 809,99 : X                      2665: X √ $X = (14,16 \times 809,99)$ $X = (3,85)(2665)$ √                                      √ =R11469,46 √                      =R 10260,25 √		
	The cheapest is united Arab Emirates online √		
1.4	You can't test if it's working before paying √√		
	QUESTION 2		
2.1	Rate charged per minute √√		
2.2	a. cost = $150 + 0,5 \times (n - 200)$ √ OR $150 + 0,5 \times n$ (n minutes above 200) √  b. cost = $2 \times n$ √, n is number of minutes √		
2.3	a. $(200 \times 1) + 250$ √  = R450 √ b. $2 \times 300$ √  =R600 √		
	QUESTION 3		
3.1	300 350 350 400 450 450 450 500 750 750		
3.1.1	Mean = $\frac{4750}{10}$ √ R475 √		
3.1.2	$\frac{450 + 450\sqrt{}}$ $2\sqrt{}$ = R450 √		
3.1.3	R450 √√		
3.1.4	Range = $750 - 300$ √ = R450 √		

3.2			
3.2.1	7,4% √ 300 × 1,075 = R322,20 √		
3.2.2	None √√		
	QUESTION 4		
4.1	D1 √√		
4.2	South west √√		
4.3	Ration scale √√		
4.4	1 : 1000000 √ 174 : X √ $X = \frac{174\ 000\ 000}{1\ 000\ 000}$ √ X = 174 KM √		

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