



LIMPOPO

PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

VHEMBE WEST DISTRICT

GRADE 10

MATHEMATICAL LITERACY

MID-YEAR EXAM PAPER 1

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TOTAL: 50 MARKS

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 THREE questions. Answer ALL the questions.
2. Show ALL calculations.
3. Number the answers correctly according to the numbering system used in this question paper.
4. Start EACH question on a NEW page.
5. Round off all final answers appropriately according to the context unless stated otherwise.
6. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise
7. Indicate units of measurement where applicable.
8. Maps and diagrams are not necessarily drawn according to scale, unless stated otherwise.
9. Write neatly and legibly.

QUESTION 1

- 1.1 Write the acronym VAT in words. (2)
- 1.2 Peak calls to all networks cost R1.50 per minute. Determine how many minutes will the peak call to any network last with R50 airtime. (3)
- 1.3 Express 0.75 as a fraction. (2)
- 1.4 Round 3463 correct to the nearest hundred. (2)
- 1.5 Write the ratio 12 : 240 in its simplest form. (2)
- 1.6 A train ticket cost R15 per return trip (to and from school). If Mary makes 5 return trips per week, determine how much will she spend in a week. (3)
- 1.7 Tumi deposited R2 400 at the ATM of ABC bank. Use the formula below to determine the ATM charges. (3)

$$\text{Deposit Charges} = \text{R3} + 1\% \text{ of the deposited amount}$$

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QUESTION 2

2. Mr Adams, a father of two children, earns a net salary of R17 150 per month after deductions. His budget for December is shown in the table below.

Mr Adams' budget for December

MONTHLY INCOME		MONTHLY EXPENDITURE	
Salary after deductions	R15 750	Bond repayment	R3 090
Overtime	R1 400	Municipal rates	R 475
		Water and refuse account	R 325
		Electricity	R 580
		Food	R 2 750
		Car instalment	R 1 650
		Petrol	R 1 800
		Entertainment	R 1 300
		School fees	R 940
		Clothes and cellphones (8% of the total monthly income)	A
TOTAL	R17 150	TOTAL	B

- 2.1 Name TWO fixed expenses. (2)
- 2.2 Mr Adams calculated that the value of A is R1 372. Show how Mr Adams calculated **A**, the amount of money he anticipates spending on clothes and cell phones in December. (2)
- 2.3 Calculate the total expenditure B. (3)
- 2.4 Determine the amount of money Mr Adams has left after paying all his expenses. (2)
- 2.5 Express bond repayment as a percentage of the total income. (3)
- 2.6 Identify one item Mr Adams can possibly cut off, in order to reduce his expenses. (2)

[14]

QUESTION 3

3. The Mathematical Literacy competition takes place every year at district level to encourage learners to improve their performance in the subject. Learners write 8 tests. Each test is out of 100, and those who got an average of 82% for the 8 tests, qualify to participate in the final. Ntsako's marks for the 8 tests are shown in the table below.

NTSAKO'S MARKS OUT OF 100								
Test Number	1	2	3	4	5	6	7	8
Marks out of 100	56	64	86	88	68	92	88	98

- 3.1 Write the marks for test 6 as a mark out of 50. (2)
- 3.2 Determine the range of mark for the tests. (2)
- 3.3 Arrange Ntsako's marks in ascending order. (2)
- 3.4 Determine the median of Ntsako's marks. (2)
- 3.5 Will Ntsako qualify to take part in the finale? Show ALL your calculations. (4)
- 3.6 Determine the probability of picking a test with score more than 80%. Express your answer as a percentage. (3)
- 3.7 Complete the frequency table on the Answer sheet. (4)

[19]**TOTAL 50**

ANSWER SHEET

NAME:

Question 3.7

Marks in percentage	Frequency	Tally
50-59	1	/
60-69		//
70-79		No tally
80-100		



(4)