



education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 10

MATHEMATICAL LITERACY P1

NOVEMBER 2024

MARKING GUIDELINES

MARKS: 75

Symbol	Explanation
MA	Method with accuracy
MCA	Method with consistent accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/a graph/document/diagram
SF	Correct substitution in a formula
O	Opinion/Explanation/Reasoning
P	Penalty, e.g. for no units, incorrect rounding off, etc.
R	Rounding off
NPR	No penalty for correct rounding
NPU	No penalty for omitting the unit, but a wrong unit is penalised
AO	Answer only
RCA	Rounding consistent with accuracy

These marking guidelines consists of 7 pages.

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however, it stops at the second calculation error.
- NOTE: consistent accuracy (CA) does not apply in cases of a breakdown.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalize for every extra item presented.
- General principle of marking, if a candidate makes one mistake one mark is deducted.
- Rounding is an independent mark.
- A conclusion mark can only be given if relevant calculations precedes it.

QUESTION 1 [14 MARKS] Answer only AO – full marks			
Q	Solution	Explanation	T/L
1.1	A budget is a summary of the expected income and expenditure for the month. ✓✓A	2A definition of budget (2)	F L1
1.2	Twenty one thousand three hundred and fifty ✓A rand ✓A	1A correct wording 1A rand (2)	F L1
1.3	Christmas gifts ✓✓A	2A correct answer (2)	P L1
1.4	R5 500 × 2 ✓M = R11 000 ✓A OR R5 500 + R5 500 ✓M = R11 000 ✓A	1MA multiply by 2 1A correct answer OR 1MA adding the same amount 1A correct answer (2)	F L1
1.5	Rent payment ✓✓A	2A correct name If R5 500 is given, ONE mark (2)	F L1
1.6	R850 ✓✓A	2A correct answer (2)	D L1
1.7	Questionnaire ✓✓A	2A answer (2)	D L1
		[14]	

QUESTION 2 [27 MARKS]			
Q	Solution	Explanation	T/L
2.1.1	179462 ✓✓RT Accept: Orkney (179462) ✓✓RT	2RT correct answer If only Orkney is given, ONE mark (2)	F L1
2.1.2	✓MA ✓MA R14 680,00 + R57,00 – R2 700,00 ✓RT = R12 037,00 ✓CA	1RT correct values 1MA add R57,00 1MA subtract R2 700 1CA answer (4)	F L2
2.1.3	R940,00 + R1 660,00 ✓RT ✓M = R2 600 ✓A	1RT both correct values 1MA adding 1A answer (3)	F L2
2.1.4	✓RT $\frac{557,50}{28\,000} \times 100$ ✓M = 1,99% ✓CA = 2%	1RT correct values 1M concept of % 1CA answer NPR (3)	F L2
2.1.5	$\frac{4}{8}$ ✓A✓A = 0,5 ✓CA	1A numerator 1A denominator 1CA answer (3)	P L3
2.1.6	R3,50 + (R1,50 × $\frac{1\,300}{100}$) ✓C ✓SF = R3,50 + R19,50 = R23,00 ✓CA His statement is NOT VALID/INVALID ✓O OR R3,50 + (R1,50 × 13) ✓C ✓SF = R3,50 + R19,50 = R23,00 ✓CA His statement is NOT VALID/INVALID ✓O	1C conversion (no. of R100's) 1SF correct substitution 1CA answer 1O Opinion OR 1C conversion (no. of R100's) 1SF correct substitution 1CA answer 1O Opinion (4)	F L4

<p>2.2</p>	<p>1st year: $R2\ 000 \times 7,5\% \times 1 \checkmark M$ $= R150$</p> <p>Half year: $R2\ 000 \times 7,5\% \times 0,5 \checkmark M$ $= R75$</p> <p>Interest: $R150 + R75 = R225 \checkmark S$ Total amount = $R2\ 000 + R225$ $= R2\ 225 \checkmark CA$</p> <p style="text-align: center;">OR</p> <p>$R2\ 000 \times 7,5\% \times 1,5 \checkmark M \checkmark C$ $= R225 \checkmark S$</p> <p>Total amount = $R2\ 000 + R225$ $= R2\ 225 \checkmark CA$</p> <p style="text-align: center;">OR</p> <p>$R2\ 000 \times \frac{7,5\%}{12} \times 18 \text{ months } \checkmark M \checkmark C$ $= R225 \checkmark S$</p> <p>Total amount = $R2\ 000 + R225$ $= R2\ 225 \checkmark CA$</p>	<p>1M calculate 7,5% for the year</p> <p>1M calculate 7,5% for a half year</p> <p>1S simplify</p> <p>1CA answer</p> <p style="text-align: center;">OR</p> <p>1M calculate 7,5% for the year 1C conversion to 1,5 years 1S simplify</p> <p>1CA answer</p> <p style="text-align: center;">OR</p> <p>1M calculate 7,5% 1C conversion to 1,5 years 1S simplify</p> <p>1CA answer</p>	<p>F L3</p>
<p>2.3</p>	<p>VAT included: $R2\ 400 \times 115\% \text{ OR } 1,15 \text{ OR } \frac{115}{100} \checkmark M$ $= R2\ 760$</p> <p>Price increase: $R2\ 760 \times 110\% \text{ OR } 1,1 \text{ OR } \frac{110}{100} \checkmark M$ $= R3\ 036 \checkmark CA$</p> <p>His claim is NOT VALID/INVALID. $\checkmark O$</p> <p style="text-align: center;">OR</p> <p>VAT included: $R2\ 400 \times 15\% \text{ OR } 0,15 \text{ OR } \frac{15}{100}$ $= R360$ $\therefore R2\ 400 + R360 = R2\ 760 \checkmark M$</p> <p>Price increase: $R2\ 760 \times 110\% \text{ OR } 1,1 \text{ OR } \frac{110}{100} \checkmark M$ $= R3\ 036 \checkmark CA$</p> <p>His claim is NOT VALID/INVALID. $\checkmark O$</p>	<p>1M adding VAT</p> <p>1M adding price increase</p> <p>1CA answer</p> <p>1O opinion</p> <p style="text-align: center;">OR</p> <p>1M adding VAT</p> <p>1M adding price increase</p> <p>1CA answer</p> <p>1O opinion</p>	<p>F L4</p>
		<p>(4)</p>	
		<p>[27]</p>	

3.2.1	$\frac{4,1 + 4,3 + 5,8 + 4,1 + 2,9 + 5,1 + 3,6 + 2,5 + 4,7 + 4,4 + 4,2 + 5,0}{12} \checkmark\text{MA}$ $\frac{50,7}{12} \checkmark\text{MA}$ $= 4,225 / 4,23 / 4,2 / 4 \checkmark\text{CA}$	1MA adding 1MA concept of mean 1CA answer NPR (3)	D L2
3.2.2	$2,5 ; 2,9 ; 3,6 ; 4,1 ; 4,1 ; \boxed{4,2 ; 4,3} ; 4,4 ; 4,7 ; 5,0 ; 5,1 ; 5,8 \checkmark\text{MA}$ <p>Middle value:</p> $= \frac{4,2 + 4,3}{2} \checkmark\text{MA}$ $= 4,25 \checkmark\text{CA}$	1RT correct values 1MA correct order 1MA concept of median 1CA answer (4)	D L3
		[18]	

