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# SA EXAM PAPERS

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**KWAZULU-NATAL PROVINCE**

EDUCATION  
REPUBLIC OF SOUTH AFRICA

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**MATHEMATICAL LITERACY**

**COMMON TEST**

**MARCH 2025**

**MEMO**

**MARKS: 100**

<b>SYMBOL</b>	<b>EXPLANATION</b>
MA	Method with accuracy
MCA	Method with Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT	Reading from a table/ graph/ diagram/Map/Document
SF	Correct substitution in a formula
O	Opinion/Explanation
AO	Answer only full marks
P	Penalty e.g. for units, incorrect rounding off etc.
NPR	No penalty for correct rounding
NPU	No penalty for omitting unit, but wrong unit is penalised

This marking guideline consists of 7 pages.

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**NOTES:**

- 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.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- Rounding is an independent mark.
- A conclusion mark can only be awarded if relevant calculations of at least  $\frac{1}{3}$  of the maximum mark of the sub-question has been awarded.
- No penalty for rounding (NPR) if the first decimal is correct, except questions involving money.

**QUESTION 1 [20 MARKS] ANSWER ONLY FULL MARKS**

Q	Solution	Explanation	T & L
1.1.1	Government grants and subsidies ✓✓RT	2RT correct answer (2)	F L1 E
1.1.2	One million seven hundred and nineteen thousand rands. ✓✓A	2A correct value (2)	F L1 E
1.1.3	37 395 000: 5 175 000 ✓RT 831: 115 ✓A	1RT correct values & order 1A simplified Ratio (2)	F L1 E
1.1.4	✓MA A = 302 644 - (133 258 + 37 395 + 48 341 + 5 175 + 59 353) = 19 122 ✓A	1MA subtracting correct values 1A correct answer (2)	F L1 E
1.1.5	Employees' salaries/Wages ✓✓A OR Employees' Medical Aid/health Insurance ✓✓A	2A correct answer (2)	F L1 E
1.2.1	Bar graph ✓✓A	2A correct answer (2)	DH L1 E
1.2.2	Discrete ✓✓A	2A correct answer (2)	DH L1 E
1.2.3	R23,38b; R21,25b; R9,87b; R8,60b; R5,80b; R5,75b ✓✓A	2A correct answer (2)	DH L1 E
1.2.4	2021 - 2022 ✓A R 8,60 b ✓A	1A period 1A amount (2)	F L1 E
1.2.5	✓MA Difference = R23,38 b - R5,75b = R17,63 b ✓A	1MA subtracting correct values 1A correct answer (2)	F L1 E
			[20]



<b>QUESTION 2 [30 MARKS]</b>			
<b>Q</b>	<b>Solution</b>	<b>Explanation</b>	<b>T &amp; L</b>
2.1.1	The amount of money Joseph borrowed from FF Finance Institution ✓✓O	2O correct explanation (2)	F L1 E
2.1.2	$\frac{18,5}{12} = 1,541666667\% \checkmark A$ <p>Interest = R50 000 × 1,541666667% ✓MA = R770,83</p> <p style="text-align: center;"><b>OR</b></p> <p>Interest = (50 000 × 18,5% ) ÷ 12 ✓A ✓MA = R770,83</p>	1A correct interest rate  1MA multiplying correct values          (2)	F L1 M
2.1.3	$B = R10\,722,30 + R160,83 - R2\,680,94 \checkmark MA$ $= R8\,202,19 \checkmark A$	1MA adding correct amounts 1MA subtracting payment 1A correct answer (3)	F L2 M
2.1.4	As the balance decreases interest also decreases ✓✓O	2O Explanation (2)	F L4 M
2.1.5	$\text{Real Cost of Loan} = (22 \times R2\,680,94) + R418,97 \checkmark MA$ $= R59\,399,65 \checkmark A$	1MA multiplying correct values 1A correct answer (2)	F L2 M
2.1.6	$\text{Total Interest} = R59\,399,65 - R50\,000 \checkmark MCA$ $= R9\,399,65 \checkmark CA$	<b>CA from 2.1.5</b> 1MCA subtracting correct amounts 1CA correct answer (2)	F L2 M
2.2.1	$\text{Total Fixed Charge} = R70,00 + R130,00 \checkmark MA$ $= R200,00 \checkmark A$	1MA adding correct amounts 1A correct answer (2)	F L2 E



2.2.2	<p>Tariff Rate in Rands: 236,34 c = R2,3634  271,10 c = R2,7110 ✓C  308,91c = R3,0891</p> <p>640 kWh = 350 kWh + 150 kWh - 140 kWh  ✓MA ✓MA ✓MA</p> <p>Charge = (350 × R2,3634) + (150 × R2,7110) + (140 × R3,0891)  = R1 666,31 ✓A</p> <p>Amount including VAT = R1 666,31 × 115% ✓MCA  = R1 916,26 ✓CA</p> <p>Total Paid = R200,00 + R1 916,26 ✓MCA  = R2 116,26 ✓CA</p>	<p>1 C conversion</p> <p>3MA multiplying correct kWh and tariff rate  1A correct amount</p> <p>1MCA multiplying by 115%  1CA correct amount</p> <p>1MCA adding correct values</p> <p>1CA correct amount (9)</p>	F L3 M
2.2.3	<p>Amount including VAT: 115% × R756,29 = R869,73 ✓A</p> <p>Total Paid = R200,00 + R869,73 ✓MCA  = R1 069,73 ✓CA</p> <p>Half of R2 116,26 = R2 116,26 ÷ 2 ✓MA  = R1 058,13 ✓A</p> <p>R1058,13 &lt; R1069,73</p> <p>The employee's claim is INCORRECT ✓O</p> <p style="text-align: center;"><b>OR</b></p> <p>Amount including VAT: 115% × R756,29 = R869,73 ✓A</p> <p>Total Paid = R200,00 + R869,73 ✓MCA  = R1 069,73 ✓CA</p> <p>Half of R2 116,26 = R2 116,26 × 0,5 ✓MA  = R1 058,13 ✓A</p> <p>R1058,13 &lt; R1069,73</p> <p>The employee's claim is INCORRECT ✓O</p>	<p>1A correct answer</p> <p>1MCA adding R200</p> <p>1CA correct total paid</p> <p>1MA dividing by 2</p> <p>1A correct answer</p> <p>1O opinion</p> <p style="text-align: center;"><b>OR</b></p> <p>1A correct answer</p> <p>1MCA adding R200  1CA correct total paid</p> <p>1MA multiplying by 0,5  1A correct answer</p> <p>1O opinion (6)</p>	F L4 M
			<b>[30]</b>



<b>QUESTION 3 [26 MARKS]</b>			
<b>Q</b>	<b>Solution</b>	<b>Explanation</b>	<b>T &amp; L</b>
3.1.1	Analyzing data ✓✓ A	2A correct answer <b>Accept: Representing Data</b> (2)	DH L2 E
3.1.2	$\% \text{ pass} = \frac{84\,760}{99\,739} \times 100\% = 84,98\%$ ✓ RT ✓ MA ✓ A	1RT Correct Numerator 1RT Correct Denominator 1MA multiplying by 100 1A answer (4)	DH L2 M
3.1.3	10 892; 33 039; 35 513; 54 414; 54 567; 79 461; 84 760; 117 793; 144 990 ✓ A  Median = 54 567 ✓ A  Province = Mpumalanga ✓ A	1A arranging data  1A Median  1A Correct Province (3)	DH L2 E
3.1.4	No of learners that Failed = 705 291 – 615 429 ✓ MA = 89 862 ✓ A  Mean = 89 862 ÷ 9 ✓ MCA = 9 984,67 ✓ CA  Claim is INCORRECT ✓ O	1MA subtracting 1A correct answer  1MCA dividing 1CA answer  1O opinion (5)	DH L4 M
3.2.1	25% of the learners in Class A achieved a mark of 84% or less ✓✓ O  <b>OR</b>  75% of the learners in Class A achieved a mark of more than 84%. ✓✓ O	2O correct explanation  (2)	DH L2 M
3.2.2	$\text{IQR} = 84 - 76 = 8$ ✓ RT ✓ SF ✓ A	1RT correct values 1SF correct substitution 1A answer (3)	DH L3 M
3.2.3	Data needs to be arranged in ascending / descending order ✓✓ A  <b>OR</b>  IQR only represents the middle 50% of the data. ✓✓ A	2A correct answer  (2)	DH L1 E



3.2.4	<table border="1"> <thead> <tr> <th></th> <th>Class A</th> <th>Class B</th> </tr> </thead> <tbody> <tr> <td>MIN</td> <td>76</td> <td>68</td> </tr> <tr> <td>Q1</td> <td>84</td> <td>76</td> </tr> <tr> <td>Q2</td> <td>88</td> <td>80</td> </tr> <tr> <td>Q3</td> <td>92</td> <td>84</td> </tr> <tr> <td>MAX</td> <td>100</td> <td>100</td> </tr> </tbody> </table>		Class A	Class B	MIN	76	68	Q1	84	76	Q2	88	80	Q3	92	84	MAX	100	100	<p>✓RT ✓RT ✓RT ✓RT</p> <p>4 RT correct values</p>	<p>DH L3 M</p>
		Class A	Class B																		
MIN	76	68																			
Q1	84	76																			
Q2	88	80																			
Q3	92	84																			
MAX	100	100																			
<p>The minimum, Q1, Q2 and Q3 values are higher in Class A</p> <p>Class A ✓A</p>	<p>1A Correct Class</p> <p>(5)</p>																				
			[26]																		

QUESTION 4 [24MARKS]			
Q	Solution	Explanation	T & L
4.1.1	<p>The tax threshold is the amount of income you can earn before you are required to pay tax. ✓✓O</p> <p style="text-align: center;"><b>OR</b></p> <p>The income level at which a person begins paying taxes. ✓✓O</p>	<p>2O correct explanation</p> <p>(2)</p>	<p>F L1 M</p>
4.1.2	<p>Annual taxable income = R7 979 × 12 ✓MA = R95 748 ✓A</p>	<p>1MA multiplying by 12 1A correct value</p> <p>(2)</p>	<p>F L2 E</p>
4.1.3	<p>Tax bracket 1 ✓✓A</p> <p style="text-align: center;"><b>OR</b></p> <p>1 - 237 100 ✓✓A</p>	<p>2A correct tax bracket</p> <p>(2)</p>	<p>F L2 E</p>
4.1.4	<p style="text-align: center;">✓SF</p> <p>Annual tax = 18% × R 95 748 = R17 234,64 ✓A</p> <p>Rebate = R17 234,64 - R17 235 ✓MCA = - R0,36 ✓CA</p> <p>Claim is CORRECT ✓O</p>	<p><b>CA from 4.1.2</b></p> <p>1SF substitution 1A correct answer 1MCA subtract 1 rebate. 1CA answer 1O opinion</p> <p>(5)</p>	<p>F L4 M</p>



4.2.1	Convert to million = $393,8 \text{ billion} \times 1\,000$ ✓MA = 393 800 million ✓A	1MA multiplying by 1000 1A correct answer <b>Accept: 393 800 000 000</b> (2)	F L2 E
4.2.2	Difference = $16,2\% - 14,9\%$ ✓MA = $1,3\%$ ✓A	1MA subtracting correct values 1A correct answer (2)	F L2 E
4.2.3	Expenditure exceeds the Income ✓O Deficit ✓A	1O correct explanation 1A correct answer (2)	F L4 E
4.2.4	Conversion = $174\,700\,000\,000 \div 0,238519$ ✓MA = R732 436 409 678,06 ✓A	1MA diving by 0,238519 1A correct answer Accept: R732 436 409 700 (2)	F L2 M
4.3.1	Inflation rate fluctuated from January 2011 to December 2023. ✓✓O  <b>OR</b> The inflation rate increases and decreases over the period. ✓✓O	2O explanation  (2)	F L2 M
4.3.2	✓RT ✓MA Price of Bread in March 2020 = $RM\,2,93 - (3\% \times R\,2,93)$ = RM 2,84 ✓A	1RT correct inflation rate 1MA subtracting 1A correct answer (3)	F L2 M
			<b>[24]</b>
		<b>TOTAL</b>	<b>100</b>

