Final Marking Guideline

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education

Department: Education REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

FINAL EXAMINATION 2008

MARKING GUIDELINE

MARKS: 150

10

Symbol	Explanation
М	Method
MA	Method with Accuracy
CA	Consistent Accuracy
А	Accuracy
С	Conversion
S	Simplification
RT /RG	Reading from a table / Reading from a graph
SF	Correct substitution in a formula
0	Opinion/Example
Р	Penalty e.g. for no units, incorrect rounding off etc.
R	Rounding Off

This memorandum consists of 17 pages

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QUESTION 1 [35]		Maximum Penalty of 1 if no unit given in Question 1.1.4 or 1.2.1 or 1.2.3	ts
Oues	Solution	Explanation	AS
1.1.1	$20\% = \frac{20}{100}$ \checkmark M/A OR $20\% = 0.2\checkmark$ M	1M Concept of % as fraction	12.1.1
	$=\frac{1}{5} \checkmark CA = \frac{1}{5} \checkmark CA$	1CA Simplification (2) ANSWER ONLY FULL MARKS	
1.1.2	$\frac{136}{200} = \frac{136}{200} \times \frac{100}{1} \% \checkmark \mathbf{MA OR} \frac{136}{200} = \frac{68}{100} \checkmark \mathbf{MA}$	1MA Conversion to a %	12.1.1
	$= 68 \% \checkmark CA = 68 \% \checkmark CA$	1CA Simplification (2)	
		Only 68 without % full marks ANSWER ONLY FULL MARKS	
1.1.3	$120:150 = 4:5 \checkmark A$	1A Correct Simplification (1)	12.1.1
1.1.4	12% of 500 kg = $\frac{12}{100} \times 500$ kg		12.1.1
	= 60 kg √ A	1A Calculating %	
	So the decrease = $500 \text{ kg} - 60 \text{ kg} \checkmark M$	1M Subtraction	
	$=$ 440 kg \checkmark CA	1CA Simplification	
	OR		
	A decrease of 12% gives a mass of 88%. ✓A	1A Correct Subtraction	
	Decreased mass = 88% of 500 kg	1M Calculating %	
	$=\frac{60}{100}\times$ 500 kg OR 0,88 × 500 kg		
	$= 440 \text{ kg}$ \checkmark CA	1CA Solution	
	OR 🗸		
	Decreased mass = $(500 - \frac{12}{100} \times 500)$ kg \checkmark M	1A Correct Subtraction 1M Calculating %	
	= 440 kg √ CA	1CA Solution (3) ANSWER ONLY FULL MARKS	

Ques	Solution	Explanation	AS
1.2.1	R 450 - R 32,40 × 10 \checkmark M = R 450 - R 324 = R 126 \checkmark CA	1M Multiplying1CA Solution(2)	12.1.1
		If answer given as R4 176 Maximum 1 mark only (Error in order of operations)	
		ANSWER ONLY FULL MARKS	
1.2.2	$5^2 - \sqrt{36} = 25 - 6 \checkmark \mathbf{M}$	1M Calculating (both)	12.1.1
	$= 19 \checkmark CA$	1CA Simplifying (2)	
		ANSWER ONLY FULL MARKS	
1.2.3	$34\% \text{ of } 450 \text{ km}^{\checkmark M}$ OR = 0,34 x 450 km = $\frac{34}{100} \times 450 \text{ km}$	1M Percentage as a fraction/decimal	12.1.1
	$= 153 \text{ km} \checkmark CA$	1CA Simplifying (2)	
		ANSWER ONLY FULL MARKS	
1.3.1	$\frac{1}{2} \text{ lb} = \frac{1}{2} \times 450 \text{ g} \checkmark \text{C} \text{ OR } 0,5 \text{ x } 450 \text{g} \text{ OR } \frac{450}{2} \text{g}$	1C Conversion	12.3.2
	= 225 g ✓CA	1CA Simplifying (2) ANSWER ONLY FULL MARKS	
1.3.2	1 oz = 30 g		12.3.2
	So 9 oz = 9×30 g \checkmark C	1C Conversion	
	= 270 g ✓ CA	1CA Simplifying (2)	
1.3.3	Amount of sugar = $\frac{3}{4} \times 250 \text{ m} \ell \checkmark M$	1M Concept of fraction	12.3.2 12.1.1
	= 187,5 m ℓ \checkmark CA	1CA Simplifying (2) ANSWER ONLY FULL MARKS	
1.3.4	Temperature in ^o C = (Temperature in ^o F - 32 ^o) $\times \frac{5}{9}$	ANSWER ONLY FULL MARKS	12.1.1 12.1.2 12.3.2
	$= (350^{\circ} - 32^{\circ}) \times \frac{5}{9} \checkmark SF$	1SF Correct substitution	
	$\approx 180^{\circ}$ C ✓R	ICA Calculation1R Rounding answer(3)	

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Ques	Solution	Explanation	AS
1.3.5	$72 \text{ tarts} = 6 \text{ dozen} = 2 \times 3 \text{ dozen}$ Number of eggs = 2 × 4 eggs	1C Convert into dozen	12.1.1 12.3.2
	$= 8 \text{ eggs} \checkmark CA$	1CA Solution (2)	
		ANSWER ONLY FULL MARKS	
1.4.1	✓O, ✓O Entertainment; social/sports club fees; repairs; maintenance of garden; church donations; transport etc.	20 Expenses not mentioned already (2)	12.4.4 12.1.1
1.4.2	Percentage spent on communication		12.4.4 12.1.1
	= 100% - (40% + 5% + 30% + 5% + 5%)	1A Adding values in brackets	
	= 100% - 85%		
	$= 15\% \checkmark CA$	1CA Simplification	
		ANSWER ONLY FULL MARKS (2)	
1.4.3	Savings $= \frac{15}{100} \times \text{R20 000} \checkmark \text{M} \text{ OR } 0,15 \times \text{R20 000}$ $= \text{R 3 000} \checkmark \text{CA}$	1RT/RG Reading off table and graph 1M Multiplying by the % 1CA Simplifying (3) ANSWER ONLY FULL MARKS Mixing parent's and Nabila's data Maximum 2	12.1.1 12.4.2
1.4.4	Amount $ \frac{\sqrt{RT/RG} \sqrt{M}}{\frac{30}{100} \times R \ 15 \ 000} OR \qquad 0,30 \times R \ 15 \ 000} $ $ = R \ 4 \ 500 \checkmark CA $	1RT/RG Reading off table and graph 1M Multiplying by the % 1CA Simplifying (3)	12.1.1 12.4.2

Quest	Question 2 [26]Penalty 1 for units in Question 2.2.4		
Ques	Solution	Explanation	AS
2.1.1	$65,6\% - 53,8\% = 11,8\% \checkmark \mathbf{A}$	1A correct subtraction (1)	12.4.4
2.1.2	Radio ✓A	1A Correct appliance (1)	12.4.4
2.1.3	Video machine \checkmark_A	1A Correct appliance (1)	12.4.4
2.1.4	√RT 72,9% × 1 000 households	1RT Correct % with % sign	12.2.3 12.4.4
	 = 0,729× 1 000 = 729 households ✓CA 	1CA Simplification (2) 72 900 One mark ANSWER ONLY FULL MARKS	
2.1.5	Difference in percentage = $53,8\% - 24,4\%$ M	1R Reading the % from the table 1M Subtraction only	12.2.3 12.4.4
	$= 29.4\% \checkmark CA$ OR	1CA Simplification (must follow from a subtraction)	
	Difference in usage $\checkmark \mathbf{R} \qquad \checkmark \mathbf{M}$ = (53.8% of 1 000) - (24,4% of 1 000) = 538 - 244 = 294 $\checkmark \mathbf{CA}$	Note: Learner can use the 1 000 households given in question 2.1.41R Reading the % from the table 1M Subtraction only1CA Simplification (must follow)	
	OR $\checkmark \mathbf{R} \checkmark \mathbf{M}$ (53,8% - 24,4%) x 1 000 = 29,4% x 1 000 = 294 $\checkmark \mathbf{CA}$	from a subtraction) 1R Reading the % from the table 1M Subtraction only 1CA Simplification (must follow from a subtraction) (3) ANSWER ONLY FULL MARKS	
2.2.1	Diameter = 62 m	1A correct value (1)	12.3.1
2.2.2	The maximum height = height of tower + length of blade = $50 \text{ m} + 31 \text{ m} \checkmark M$ = $81 \text{ m} \checkmark A$	1M Identifying the two values 1A Solution (2) ANSWER ONLY FULL MARKS	12.3.1
2.2.3	C = $2 \times \pi \times$ radius = $2 \times 3,14 \times 31$ m OR C = $\pi \times$ diameter = $3,14 \times 62$ m	1M Substitution	12.3.1
	= $194,68 \text{ m} \checkmark \mathbf{A}$ = $194,68 \text{ m}$	1A Simplification (2) OR (π) 194,78 OR $(\frac{22}{7})$ 194,85	

Ques	Solution	Explanation	AS
2.2.4	Area = πr^2 $\checkmark M$		12.3.1
	$=3,14 \times (31 \text{ m})^2$	1M Substitution	
	2	1CA Simplification	
	$= 3 017,54 \text{ m}^2 \checkmark CA \checkmark A$	1A Correct units	
		(3)	
		$OR(\pi) 3 019,07 OR$	
		$(\frac{1}{7})$ 3 020,29	10.0.1
2.2.5	Number of households		12.2.1
	$=$ $\frac{1}{\sqrt{50 \text{ kW}}}$ \checkmark M/A	1M/A Correct division	
	25 kW per household		
	$=$ 70 households \checkmark CA	1CA Simplification (on	
		multiplication or division only)	
		(2)	
2.3.1	20 days ✓RG	1RG Reading from graph	12.2.3
		(1)	
2.3.2	Approximately $3\frac{1}{2}$ days, or $\frac{20}{20}$ or $\frac{10}{20} \checkmark RG \checkmark A$		12.2.3
	$\begin{array}{c} 1 \\ 3 \\ 3 \\ 6 \\ 3 \end{array}$	1RG Reading from graph	
	(accept any estimated reading between $3\frac{1}{2}$ and	1A estimation	
	4		
	$3\frac{1}{2}$ or 3,25 and 3,5)		
	$\frac{2}{\sqrt{\mathbf{BC}}}$	(2)	10.0.0
2.3.3	4 workers.	2RG Reading from graph	12.2.3
(a)		(2)	
(b)		(2)	1223
(0)	3 workers OR about 3 workers $\sqrt{RG} \sqrt{RG} \sqrt{RG}$	3RG Reading from graph	12.2.5
		erro rienaring rein Brahn	
	OR	OR	
	✓RG ✓RG ✓RG		
	$\frac{1}{2}$ workers OR 2 workers on a full time basis and	3RG Reading from graph	
	2^{2} workers on 2 workers on a run time basis and 2		
	third worker to work half of each day	a) 2 Marks 2 to 3 workers OR	
		from 2 to 3 workers OR	
		a fractional answer between 2	
		and 3 workers	
		b) 1 Mark 2 workers	
		(3)	

Quest	ion 3 [18]	Maximum Penalty of 2 for Ouestion 3.1 and 3.2	unit	s in
Ques	Solution	Explanation		AS
3.1	$V = l \times b \times h$ = 2,5 m × 2 m × 1,5 m \checkmark SF = 7,5 m ³ \checkmark S = 7,5 k $\ell \checkmark$ C	1SF Correct substitution 1S Answer with unit 1C Conversion	(3)	12.3.1
		ANSWER ONLY FULL MARKS		
3.2	$\checkmark_{\mathbf{F}}$ S.A. = $(l \times b) + 2 \times (l \times h) + 2 \times (b \times h)$	1F Formula correct		12.3.1
	✓ SF = [(2,5×2) + 2×(2,5×1,5) + 2×(2×1,5)] m ²	1SF Correct substitution		
	= $[5 + 2(3,75 + 3) \text{ m}^2]$			
	$= [5 + 2 \times 6,75] \text{ m}^2 \checkmark \text{A}$	1A Simplifying		
	$= 18,5 \text{ m}^2 \checkmark CA$	1CA Solution	(4)	
		Other correct formula and everything is correct FU marks	LL	
		ANSWER ONLY FULL MARKS		
3.3	Glass = 20 m ² × R 480,00 per m ² \checkmark M/A \checkmark A	1M/A Concept 1A Product		12.1.3 12.3.1
	$= R 9 600,00 \checkmark CA$	1CA Solution	(3)	
		ANSWER ONLY FULL MARKS		

Ques	Solution	Explanation	AS
3.4	A discount of 15% gives a balance of 85%. $\checkmark A$	1A Correct subtraction	12.1.1
	Amount paid for the pump		
	= 85% of R 3 999,00 OR $\frac{85}{100} \times$ R 3 999,00 \checkmark M	1M Calculation	
	$= R 3 399,15 \checkmark CA$	1CA Simplifying	
	OR		
	Discount = 15% of R 3 999,00 = R 599,85	1A Actual discount	
	Amount paid for the pump = R 3 999,00 - R 599,85 \checkmark M = R 3 399,15 \checkmark CA	1M Subtraction 1CA Simplification	
	OR		
	Amount paid for the pump		
	= R 3 999,00 – 15% of R 3 999,00	1M Subtraction	
	= R 3 999,00 - R 599,85	1A Actual discount	
	$= R 3 399,15 \checkmark CA$	1CA Simplification (3)	
		ANSWER ONLY FULL MARKS	
3.5	Time taken to fill the tank = $\frac{6\ 900}{2\ 300}$ hours \checkmark M/A	1M Concept of division	12.2.1
	$=$ 3 hours $\checkmark \mathbf{A}$	1A Simplification (2)	
		ANSWER ONLY FULL MARKS	
3.6	Income = $\checkmark \checkmark SF$ (number of adults) × R7,50 (number of children and pensioners) × R4,00 = 900 × R 7,50 + (1 380 + 300) × R 4,00 = 900 × R 7,50 + 1 680 × R 4,00	2SF Correct Substitution	12.2.1
	= R 6 750,00 + R 6 720,00 = R 13 470,00 \checkmark A	1A Simplification (3) ANSWER ONLY FULL MARKS	

QUEST	UESTION 4 [24]		
Ques	Solution	Explanation	AS
4.1.1	1 March 2006 – 28 February 2007 OR	1A Correct Period	12.4.4
	12 months OR One year OR March to February	(1)	
4.1.2	Local municipality OR Subsidy 	1A Correct source	12.4.4
		(1)	
4.1.3	✓A ✓M		12.1.1
	$=\frac{R 308160}{\times 100\%}$	1A Correct numerator and	12.1.2
	R 443 520	denominator	12.4.4
		IM Calculating %	
	= 69,48051948%	1A Simplification	
	≈ 69,5%	1R Rounding off (4)	
		ANSWER ONLY FULL MARKS	
4.1.4	Average cost of one school uniform		12.2.1
	$= R10\ 047 \div 48 \qquad \checkmark M$	1M Dividing	12.4.3
	$= R209,3125$ \checkmark CA	1CA Calculating	
	\approx R209,31 \checkmark R OR R209,30	1R Correct rounding (3)	
		Multiplying instead of Dividing MAX 1 mark	
		ANSWER ONLY FULL MARKS	
4.1.5			12.2.1
	$R 0,08 = 1 \text{ yen } \checkmark M$	1M Using the correct	12.2.3
	$R 57 120 = \frac{1 \text{ yen} \times R 57120}{\checkmark A}$	conversion	
	R 0,08	1A Division	
	$= 714\ 000\ yen.$	1CA Selection	
		ICA Solution	
		Multiply instead of dividing 1	
		mark	
		If in Rand instead of yen maximum 2 marks	
		(3)	
415		ANSWER ONLY FULL MARKS	10.1.1
4.1.6	Petrol OR service tee (maintenance) OR license fee	10 Any suitable transport	12.4.4
(a)	(any suitable answer)	(1)	
	(any suitable answer)	(1)	
4.1.6	The cost per kilometre = $R22 \ 822 \div 18 \ 554 \checkmark F/M$	1F/M Dividing	12.1.1
(b)	$= R1,23003 \checkmark CA$	1CA Simplification	12.2.1
	\approx R1,23 OR 123 cents R	1R Cost rounded off	
		(3)	
		Multiplying 1 Mark only	
		NO MARKS for ADDITION or SUBTRACTION	
L			I I

Oues	Solution Explanation	Oues
4.2.1	Number of orphans living with relatives	12.1.1
	= 48% of 1 712 orphans \checkmark M 1M Using percentage	12.1.2
	$= \frac{48}{100} \times 1712 \text{ orphans } \mathbf{OR} \ 0,48 \times 1712 \text{ orphans}$ = 821,76 orphans $\checkmark \mathbf{CA}$ $\approx 822 \text{ orphans } \mathbf{OR} \text{ accept } 821 \text{ orphans}$ 1CA Number of children rounded off to nearest whole number	
4.2.2	(2) LIGHTHOUSE FOUNDATION BENEFICIARIES FOR THE PERIOD 1 MARCH 2006 TO 28 FEBRUARY 2007	
		12.4.2
	i = 1 $i = 1$	
	2A for plotting points 2A mark for drawing bars 1 mark labels A,B,C, and D (full descriptions) 1 mark Equally spaced bars ✓A NOTE: the bars must be evenly spaced OR lie next to each other Points and labels and line graph drawn Maximum 3 Marks	(6)



Ques	Solution	Explanation	AS
5.2.1	Median time = 34 minutes $\checkmark \mathbf{A}$	1A Correct median (1)	12.4.3
5.2.2	✓A Sandile's times : 29; 30; 30; 31; 31; 32; 32; 32; 32; 35	1A Arranging in order	12.4.2
	Median time = $\frac{32+31}{2}$ minutes	1 M calculation	
	\checkmark CA =31,5 minutes or 31 minutes 30 seconds	1 CA solution (3)	
		Subtraction – break down maximum 1 ANSWER ONLY FULL MARKS	
5.2.3	Range = $(37 - 30)$ minutes = 7 minutes $\checkmark A$	1M Method 1A Correct Range (2)	12.4.3
		Incorrect calculations Maximum 1 mark ANSWER ONLY FULL MARKS	
5.2.4	Sandile's mean time $= \frac{\text{Sum of Sandile's times}}{\text{no. of trials}} \checkmark M$ $= 29 + 30 + 30 + 31 + 31 + 32 + 32 + 32 + 32 + 35 \text{minutes}$	1M Using concept of mean or implied	12.4.3
	$= \frac{314}{10} \text{ minutes}$	1A addition	
	= 31,40 minutes OR $\stackrel{\checkmark CA}{31}$ minutes 24 seconds	1 CA solution ANSWER ONLY FULL MARKS (3)	
5.2.5	Mode = 32 minutes $\checkmark \mathbf{A} \checkmark \mathbf{A}$	2A Correct mode (2)	12.4.3
5.2.6	P(less than 35 minutes)		12.4.5
	$=\frac{7}{11} \overset{\checkmark \mathbf{A}}{\underset{\checkmark \mathbf{A}}{}} \mathbf{OR} 63,64\% \mathbf{OR} 0,64$	1A Numerator1 A Denominator(2)	
		ANSWER ONLY FULL MARKS	
		Writing as a ratio maximum 1 MARK	

Questi	Question 6 [13]			
Ques	Solution	Explanation	AS	
6.1	A1 or 1A 🖌	1A Correct grid reference (1)	12.3.4	
6.2.1	Turn right into Montagu Drive. Go straight until the intersection of Montagu Drive and East Street. ✓M ✓A Turn left into East Street. Go along until you pass Voortrekker Street. Find friend's house before reaching Frere Street.	1M Method for route 1A Accuracy for description	12.3.4	
	OR			
	Turn right in Montagu Drive. Go straight until the intersection of Montagu Drive and Station Road. ✓M	1M Method for route		
	Turn left into Station Road. Go along until you find Voortrekker Street. Turn right in Voortrekker Street and go straight until you find East Street. Turn left in East Street. Find friend's house before reaching Frere Street.	1A Accuracy for description		
	OR			
	Turn right into Montagu Drive. Go straight until the intersection of Montagu Drive and Short Street. ✓M ✓A	1M Method for route		
	Turn left into Short Street. Go along until you find Voortrekker Street. Turn right in Voortrekker Street and go straight until you find East Street. Turn left in East Street. Find friend's house before reaching Frere Street	1A Accuracy for description (2) 1 mark if any road mentioned		
	OR			
	Follow learners own solution.			

Ques	Solution	Explanation	AS
6.2.2	1 m represents 16 000 m ∴ 0,029 m represents 16 000 ×0,029 m ✓M	1M Proportion	12.3.3
	✓A	1A Actual distance	
	= 464 m OR 0,464 km OR 464 000 mm	(2)	
	OR 46 400 cm	Units are important. 1 mark for incorrect answer and no units 0 marks for incorrect answer and incorrect units 1 mark for correct answer and incorrect units 2 marks for correct answer and no units 0 marks if divide instead of multiply	
6.2.3	South OR S \checkmark A (accept South West or SW)	1A Appropriate general direction (1)	12.3.4
6.2.4	North-West OR NW ✓A	1A Correct relative position (1)	12.3.4

Ques	Solution	Explanation	AS
6.3.1	Speed = $\frac{\text{Distance}}{\text{Time}}$ = $\frac{2,4 \text{ km}}{(9,5 \div 60) \text{ hours}} \checkmark C$ = $15 \frac{3}{19} \text{ km/h} \checkmark CA$ Also accept 15,16 km/h	1SF Correct substitution 1 Conversion to hrs 1CA Solution (3)	12.2.1 10.3.1
	$\frac{\sqrt{SF}}{9,5 \text{ min}} \times 60 \sqrt{C}$ $= 15 \frac{3}{19} \text{ km/h}$ Also accept 15,16 km/h	1SF Substitution 1C Conversion to hrs 1CA Solution (3) Units are important 2 marks for correct value and no units 1 mark for correct value and incorrect units 2 marks for no conversion but correct units (km/min) i.e. $\frac{2,4 \text{ km}}{9,5 \text{ min}} = \frac{24}{95} \text{ km/min}$ = 0,25 km/min	
6.3.2	Wages = R 50,00 + no. of papers delivered × R 0,10 = R 50,00 + 150 × R 0,10 \checkmark M = R 50,00 + R 15,00 \checkmark A = R 65,00 \checkmark CA	1M Substitution 1A Simplification 1CA Solution (3) Maximum 2 marks if order of operations incorrect 50,00 + 150 × 0,10 = 200 × 0,10 = R20	12.2.1

Question 7 [16]					
Ques	Solution	Explanation	AS		
7.1.1	Amount of water used = $4 \times 11 \ \ell$ = $44 \ \ell \ \checkmark A$	1M Concept 1A Solution (2) ANSWER ONLY FULL MARKS	12.1.1		
7.1.2	Reduction = $\frac{1}{3} \times 150 \ \ell \checkmark M$ = 50 $\ell \checkmark A$ Amount of water used = $150 \ \ell - 50 \ \ell$ = $100 \ \ell \checkmark CA$	1M Calculating $\frac{1}{3}$ 1A Simplification 1CA Solution	12.1.2		
	OR $\checkmark M$ Reduction of $\frac{1}{2}$ means that $\frac{2}{3}$ is used.	1M Calculating $\frac{2}{3}$			
	Amount of water used = $\frac{2}{2} \times 150 \ell$	1A Simplification			
	$= \frac{3}{100} \ell \checkmark \mathbf{CA}$	1CA Solution			
	OR Amount of water used = 150 $\ell - \frac{1}{2} \times 150 \ell$	1M subtracting $\frac{1}{3}$			
	$= 150 \ \ell - 50 \ \ell \checkmark \mathbf{A}$	1A Simplification			
	$= 100 \ \ell \checkmark CA$	1CA Solution (3)			
		1 mark for $150 - \frac{1}{3} = 149\frac{2}{3}$			
7.2.1	Monthly cost = R 44,82 + $(2 \times R 8,22)$ = R 61,26 \checkmark CA	1M Correct substitution 1CA Solution (2)	12.2.1		

Question 7 [16]				
Ques	Solution	Explanation	AS	
7.2.2	The new tariff = R 44,82 + 15% of R 44,82 = R 44,82 + R 6,72 \checkmark A = R 51,54 \checkmark CA	1M/A Adding 15% 1A Simplification 1CA Solution	12.1.2	
	\mathbf{OR} $\mathbf{\checkmark A}$ The new tariff = 115% of R 44,82 $\mathbf{\checkmark M}$ $= \frac{115}{100} \times \text{R 44,82}$ $= \text{R 51,54} \mathbf{\checkmark CA}$	OR 1M/A Adding 15% 1A correct % 1CA Solution (3)		
	<u>/n</u>	15% of R44,82 = R6,72		
7.3.1	R 0,00 OR free OR nil OR zero	1R Correct reading (1)	12.2.1	
7.3.2	$ \sqrt{R} \sqrt{R} $ 22,5 k ℓ (Accept readings between 22 k ℓ and 23 k ℓ)	2R Correct reading (2)	12.2.3	
7.3.3	R 95 √ R √ R √ A	2R Correct reading 1A Correct unit (3)	12.2.3	
		R115 2MARKS Any amount between R88 and R115 1MARK for unit ONLY		