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LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
EDUCATION

VHEMBE EAST DISTRICT

NATIONAL
SENIOR CERTIFICATE

GRADE 11

MATHEMATICAL LITERACY
TERM 3
CONTROL TEST
2024

MARKING GUIDELINE

MARKS: 100

TIME: 2 HOURS

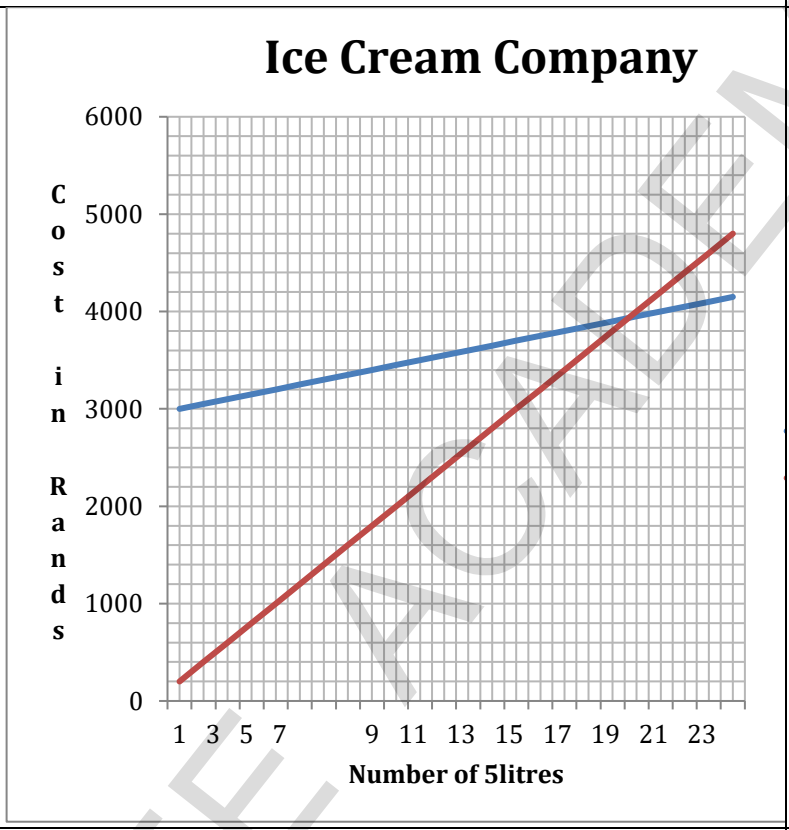
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Q	SOLUTIONS	MARKS
	QUESTION 1 [31]	
1.1	1.1. E ✓✓ 1.2. D ✓✓ 1.3. B ✓✓ 1.4. A ✓✓ 1.5. C ✓✓	**2 correct answers** **2 correct answers** **2 correct answers** **2 correct answers** **2 correct answers** **(10)**
1.2.1	Value Added Tax ✓✓	**2 correct answer**
1.2.2	Original Selling Price = R10 999 + R 2000✓ = R12 999✓	**1 for Adding** **1 correct answer** **(2)**
1.2.3	VAT amount = $\frac{15}{115}$ ✓x R10 999✓ = R 1 434,65✓ OR Price exclude VAT = $\frac{R10\ 999}{1,15}$ ✓ OR = $\frac{100}{115}$ x R10 999✓ = R9 564,35✓ VAT amount= R10 999 – R9 564,35 = R1 434,65✓	**1 for dividing** **1 multiplying by R10999** **1 correct answer** **OR** **1 For dividing** **1 subtraction** **1 correct answer** **(3)**
1.2.4	The stove function on dual purpose of gas and electricity✓✓	**2 Explanation**
1.3.1	Fixed costs = Rent✓, Car Repayment✓, Insurance✓ Total Costs = R8000 + R7000 + R900✓ = R15900 ✓	3 Marks for Fixed costs and 2 Marks for Total Costs (05)marks
1.3.2	Repairing Broken Car✓✓	2 Marks

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1.3.3	$= \frac{Variable\ Costs}{Budget\ Income}\ X\ 100$✓ $=\frac{(R2392 + R860 + R1500 + R2000)}{R52000}\ X\ 100$✓ = 12,98%✓ Lufuno is correct ✓	1 Mark for application 1 Mark for substitution 1 Mark for answer 1 Mark for validation (4)
	QUESTION 2 [12]	
2.1.1		1 mark for starting point 1 mark for break-even point 1 mark for end point 1 mark for straight line 2 marks for labelling the axis (6)
2.1.2	Break-even point: Selling Price = Costs Price R200(No. of 5Litres) = R3000 + R50(No. of 5Litres) ✓ R150(No. of 5Litres) = R3000 Break-even point = 20 ✓ To make a profit the company should sell 21 5Litres ✓	1 Mark for the formula 1 Mark for the answer 1 Mark for Profit
2.1.4	$Percentage\ Profit = \frac{Profit}{Income}\ X\ 100$✓ $= \frac{R12000}{R20000}\ X\ 100$ ✓ = 60%✓	1 Mark for formula 1 Mark for substitution 1 Mark for the answer (03)

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	QUESTION 3 [20]	
3.1.1	A = l × h = 10,2cm X 6,5cm✓ = 66,3 cm²✓	1 mark Substitution 1 mark for correct answer (2)
3.1.2	V = l X w X h ✓ = 10,2cm X 8,7cm X 6,5cm ✓ = 576,81cm^3 ✓	1 Correct formular 1 Substitution 1 Correct answer (3)
3.1.3	No of boxes through the width of the container = $\frac{42.1cm}{10.2cm}$ ✓ = 4.12 = 4 boxes ✓ No of boxes through the width of the container $\frac{54,8cm}{10.2cm}$ ✓ = 5,3 = 5 boxes No. of boxes = 4 X 5 ✓ = 20 boxes ✓	1 Division 1Correct answer 1 dividing 54,8 1 multiplication 1 correct answer (05)
3.1.4	No of boxes through the width of the container = $\frac{42.1cm}{6,5cm}$ ✓ = 6,47 = 6 boxes ✓ No of boxes through the width of the container $\frac{33,5cm}{6,5cm}$ ✓ = 5.2, = 5 boxes No. of boxes = 6 X 5 ✓ = 30 boxes ✓	1 Division 1Correct answer 1 dividing 1 multiplication 1 correct answer (05)

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	QUESTION 4 [18]	
4.		
4.1.1	N3 ✓ , The distance = 488km Bar scale ✓✓	1 Marks for mentioning 2 Marks for answer with the correct unit (03)
4.1.2	= 2 X 488km = 976km ✓✓	2 Marks
4.1.3	N5; N11 ✓✓	2 Marks
4.1.4	= 440 – 289 = 151km ✓✓ OR =268 – 117 =151km ✓✓	2 Marks
4.1.5	JHB to Escourt =391km ✓✓ Pietermaritzburg to Villiers = 440 – 69 = 371km ✓✓ The statement is incorrect ✓✓	2 Marks for distance from JHB and Escourt 2 Marks for distance between Pietermaritzburg 2 Marks for findings
4.1.6	= 4 ÷ 13 ✓ = 0,3 ✓	1 Mark for correct identification 1 Mark for the answer
5		
5.1	Northeast ✓✓	2A correct direction (2)
5.2	Bar Scale ✓✓ (2,2-2,4cm) on the paper represent 60km in reality ✓✓	2 marks for mentioning 2 marks for explaining (4)
5.3	5✓✓	2A correct answer (2)
5.4	2,3cm = 60km	1 for division

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	1cm =? $=\frac{60}{2,3}$ ✓ 1cm = 26,08695652✓ 6,2cm = 26,08695652 × 6.2✓ =161,7368km✓ =162km✓ OR 2,3cm = 60km 2,3cm =60×100 000cm ✓ 1cm = $\frac{6000000}{2,3}$ ✓ = 2608695,652cm = $\frac{2608695,652cm}{100\ 000cm}$ = 26,08695652 ✓ 6,2cm = 26,08695652 × 6.2 = 26,08695652 × 6.2✓ = 162 km ✓	1 correct answer 1 for multiplying 1 correct answer 1 Rounding 1 for multiplying 1 for division 1 correct answer 1 for multiplying by 6,2 1 Rounding (5)
5.5	Time= $\frac{135}{60}$ = 2,25hrs Average Speed = $\frac{162km}{2,25hrs}$ =72km/h	1 dividing by 60 1 CA substitution 1 denominator 1 correct answer (5)

100 marks

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