



Western Cape
Government

Western Cape Education Department

**Directorate: Curriculum
FET**

TERM 3 REVISION MATERIAL

2025

GRADE 12

SUBJECT: MATHEMATICAL LITERACY

MARKING GUIDELINE

Symbol/Kode	Explanation/Verduideliking
M	Method/Metode
MA	Method with accuracy/Metode met akkuraatheid
CA	Consistent accuracy/Volgehoue akkuraatheid
A	Accuracy/Akkuraatheid
C	Conversion/Herleiding
S	Simplification/Vereenvoudiging
RT	Reading from a table/graph/document/diagram/Lees vanaf 'n tabel/grafiek/dokument/diagram
SF	Correct substitution in a formula/Korrekte vervanging in 'n formule
O	Opinion/Explanation/Opinie/Verduideliking
P	Penalty, e.g. for no units, incorrect rounding off, etc./Penalisasie, bv. vir geen eenhede, verkeerde afronding, ens.
R	Rounding off /Afronding
NPR	No penalty for rounding/Geen penalisasie vir afronding nie
AO	Answer only/Slegs antwoord
MCA	Method with constant accuracy/Metode met volgehoue akkuraatheid

FINANCE/ FINANSIES

QUESTION / VRAAG 1

Q/V	Solution/Oplissing	Explanation/Verduideliking
1.1.1	Annual gross salary / Jaarlikse bruto salaris = R13 200 × 12 ✓M = R158 400 ✓A	1 M multiply by 12 1 A answer
1.1.2	UIF / WVF = 1% of / van R13 200 = × R13 200 ✓M = R132,00 per month / per maand ✓A	1M method 1 A answer
1.1.3	Lebogang's portion / se gedeelte = ✓M Total / Totaal × = R1 273,00 ✓M Total / Totaal = R1 273,00 × ✓M = R1 909,50 Total monthly medical aid contribution / Totale maandelikse mediese hulpfonds betaling = R1 909,50 ✓CA	1 M method 1 M method 1 M multiply by 1 CA answer
1.1.4	(a) Bracket / Kategorie 1 ✓RT✓RT (b) Primary / Primêr: R13 500 ✓RT✓RT	2 RT reading diagram 2 RT reading diagram

	<p>(c) Annual tax payable / Jaarlikse belasting betaalbaar $= 18\% \times R153\,180 - R13\,500 \quad \checkmark M \checkmark SF$ $= R27\,572,40 - R13\,500$ $= R14\,072,40 \quad \checkmark A$</p>	<p>1 M method 1 SF substitution 1 CA answer</p>
1.1.5	<p>A Sales representative / Verkoopsvertegenwoordiger $\checkmark A \checkmark A$</p> <p>B R1 273,00 $\checkmark A \checkmark A$</p> <p>C R132,00 $\checkmark CA \checkmark CA$</p> <p>D $R14\,072,40 \div 12 \quad \checkmark M$ $= R1\,172,70 \quad \checkmark CA$</p> <p>E $R1\,273,00 + R132,00 + R1\,172,70 \quad \checkmark M$ $= R2\,577,70 \quad \checkmark CA$</p> <p>F $R13\,200 - R2\,577,70 \quad \checkmark M$ $= R10\,622,30 \quad \checkmark CA$</p>	<p>2 A answer 2 A answer 2 CA answer 1 M divide by 12 1 CA answer 1 M adding all values 1 CA answer 1 M subtracting 1 CA answer</p>
1.2.1	<p>Monthly salary = Monthly taxable income $\div 0,925$ = Maandelikse belasbare inkomste $\div 0,925$ $= R33\,412,65 \div 0,925 \quad \checkmark SF$ $= R36\,121,78 \quad \checkmark A$ Annual salary = $R36\,121,78 \times 12 \quad \checkmark MCA$ $= R433\,461,36 \quad \checkmark CA$</p>	<p>1 SF substituting R33 412,65 1 A answer 1 MCA multiply by 12 1 CA answer</p>
1.2.2	<p>He is under 65 years old and earning an income of more than R75 750 $\checkmark O$; therefore, he qualifies to pay tax. $\checkmark J$</p>	<p>1 O explanation 1 J justification</p>
1.2.3	<p>Taxable income before rebates $= R61\,910 + 31\% (R400\,951,80 - R296\,540) \quad \checkmark RT \checkmark SF$ $= R94\,277,66 \quad \checkmark A$</p> <p>Medical credit = $R303 \times 2 \times 12 \quad \checkmark M$ $= R7272 \quad \checkmark CA$</p> <p>Payable tax = $R94\,277,66 - R7272 - R13500 \quad \checkmark M$ $= R73\,505,66 \quad \checkmark CA$</p> <p>Monthly tax = $R73\,505,66 \div 12 \quad \checkmark MCA$ $= R6\,125,47 \quad \checkmark CA$</p> <p>Therefore, his claim is invalid. $\checkmark J$</p>	<p>1 RT correct tax bracket 1 SF substituting R400 951,80 1 A answer 1 M multiplying by 2 and 12 1 CA answer 1 M subtracting rebates and medical credits 1 CA answer 1 MCA dividing by 12 1 CA answer</p>

		1 J justification
1.3	$\begin{aligned} & \checkmark A \quad \quad \quad \checkmark MCA \\ \text{Income tax} &= R147\,996 + 39\% \times R(663\,000 - 550\,100) \\ &= R147\,996 + 39\% \times R112\,900 \quad \checkmark S \\ &= R147\,996 + R44\,031 \\ &= R192\,027 \quad \checkmark CA \\ \text{Total Income Tax (after rebates)} \\ &= R192\,027 - R13\,500 - R7\,407 \quad \checkmark M \\ &= R171\,120 \quad \checkmark CA \end{aligned}$	1 A correct bracket 1 MCA amount above 1 S simplification 1 CA tax before rebate 1M subtracting both rebates 1 CA tax after rebate
1.4.1		1M multiply basic salary by 7,5% 1A answer 1M adding correct deductions 1CA answer 1MA answer
1.4.2		1F choosing correct formula 1SF substituting correct value 1R rounding
1.4.3	<p>Gross Annual Salary + R900 × 12</p> <p>OR</p> <p>Annual Gross Salary + R900 × 12</p> <p>Annual tax deductibles</p> <p>Taxable income</p> <p>2nd tax bracket:</p> <p>Less rebates</p>	1MA gross annual salary OR 1M add UIF and Pension multiplying by 12 1A answer 1MA subtracting 1F choosing correct formula 1SF substitution 1CA answer 1RT reading primary rebate from table 1MA subtracting

	<p>Annual medical credit</p> <p>Net tax payable per annum</p> <p>PAYE</p> <p>∴ Her statement was incorrect / false.</p>	<p>1MA medical credit for 2 adults multiply by 12</p> <p>1CA answer</p> <p>1M divide by 12</p> <p>1O validity of statement</p>
--	---	--

QUESTION / VRAAG 2

<p>2.1.1</p>	<p>Accommodation per person = ✓A</p> <p style="text-align: right;">= R283,33 ✓CA</p> <p>Kz 100 000 = R9 173,05</p> <p>Amount Kwanza = x Kz100000 ✓A</p> <p style="text-align: center;">✓M</p> <p style="text-align: right;">≈ Kz3 088,76 ✓CA</p> <p style="text-align: center;">OR</p> <p>R9 173,05 = Kz100 000</p> <p style="text-align: center;">R1 = ✓M</p> <p style="text-align: center;">= Kz 10,9014995</p> <p style="text-align: center;">10, 9014995 x 850 ✓A</p> <p style="text-align: center;">≈ Kz9 266,27 ✓CA</p> <p>Cost per person = ✓A</p> <p style="text-align: right;">≈Kz3 088,76 ✓CA</p>	<p>1 A divide by 3</p> <p>1CA accommodation per person in R</p> <p>1A multiply by 100000</p> <p>1M divide by 9173,05</p> <p>1CA per person</p> <p style="text-align: center;">OR</p> <p>1M divide by 9 173,05</p> <p>1 A multiply by 850</p> <p>1 CA total amount</p> <p>1 A divide by 3</p> <p>1 CA accommodation per person in Kz (using R850 per person max 5 marks. Multiplying R850 by 3 max 4 marks)</p>
<p>2.1.2</p>	<p>\$1 = Kz 169,27344</p> <p>Average disposable salary = \$ 1 760,41 x Kz 169,27344/\$ ✓M</p> <p style="text-align: right;">≈ Kz297 990,66 ✓A</p> <p>Angola:</p>	<p>1M multiplying</p> <p>1 A Disposable salary in Kz</p>

	<p>Rent as a % of income = $\frac{\text{Rent}}{\text{Income}} \times 100\%$ ✓M = 48,99% ✓CA</p> <p>South Africa:</p> <p>Rent as a % of income = $\frac{\text{Rent}}{\text{Income}} \times 100\%$ ✓M = 26,85% ✓CA</p> <p>Not valid .It is much cheaper in SA but not double. ✓O</p>	<p>1M percentage calculation</p> <p>1 CA percentage</p> <p>1M percentage calculation</p> <p>1 CA percentage</p> <p>1 O conclusion</p>
2.2.1	United Kingdom OR Britain ✓RT ✓RT	2RT correct country
2.2.2	<p>South African rand = 0,070 US dollar ∴ \$1,94 = ✓M = R27,71 ✓A</p> <p style="text-align: center;">OR</p> <p>R95,57 ÷ \$6,69 = 14,2855... ✓M \$ 1,94 x 14,2855... = R27,71 ✓A</p>	<p>1M dividing by exchange rate</p> <p>1A rand value</p> <p>OR</p> <p>1 M dividing by price in dollar</p> <p>1 A rand value</p>
2.2.3	<p>(a) euro ✓M = 7 euro ✓A</p> <p>(b) ✓M_ = 0,21 ✓A</p> <p>1 Indian Rupee equals 0,21 South African rand</p>	<p>1M dividing by exchange rate</p> <p>1 A euro value with unit</p> <p>1 M dividing by exchange rate</p> <p>1 A rand value</p>
2.2.4	<p>SGD \$8,00 : SGD \$ 2,50 ✓A ✓MA 16 : 5 ✓CA</p>	<p>1 A identifying the correct values</p> <p>1 MA ratio in correct Order</p> <p>1 CA simplified ratio</p>
2.2.5	<p>United States of America and Brazil ✓RT ✓RT</p>	<p>1 RT United States of America</p> <p>1 RT Brazil</p>
2.3.1	<p>$1\text{€} = \frac{1}{8,02}$ = R0,124 ✓A✓A</p>	

	OR 12c	2A correct answer
2.3.2	$R800,00 \times 8,02 = \text{R}6\,416,00$ ✓A ✓A	2A correct answer
2.3.3	$\begin{array}{l} \checkmark\text{MA} \quad \checkmark\text{MA} \\ (R8\,750,00 + R3\,771 + (3 \times R800,00)) \\ = R14\,921,00 \quad \checkmark\text{A} \end{array}$	1MA adding 1MA multiplying by 3 1A answer
2.4.1	$\begin{array}{l} \checkmark\text{M} \quad \checkmark\text{CA} \\ (\$2 \times 2) + \$1,50 + \$1,00 = \$6,50 \end{array}$	1 M adding all values 1 CA answer
2.4.2	$\begin{array}{l} \checkmark\text{M} \quad \checkmark\text{A} \\ 6,50 \div 0,080944 = R80,30 \end{array}$	1M dividing by exchange rate 1 A answer in Rand
2.4.3	$\begin{array}{l} \checkmark\text{M} \quad \checkmark\text{A} \\ \text{(a)} \quad 6,50 \times 12,354\,192 = R80,30 \\ \\ \text{(b)} \quad \text{No} \quad \checkmark\text{O} \quad \checkmark\text{O} \end{array}$	1 M multiply by exchange rate 1 A answer in Rand 2 O answer
2.5.1	$\begin{array}{l} \text{Commission} = 1,95\% \times \text{£}360,00 \quad \checkmark\text{MA} \\ = \text{£}7,02 \quad \checkmark\text{A} \end{array}$	1 MA calculating % 1 A commission in pound
2.5.2	$\begin{array}{l} \text{£}360,00 = \quad \checkmark\text{MA} \\ \\ = R6\,235,9258 \quad \checkmark\text{A} \\ \\ = R6\,235,93 \quad \checkmark\text{CA} \\ \\ \text{OR} \\ \\ \text{£}1 = \quad \checkmark\text{MA} \\ \\ = R17,32201628 \\ \\ \text{£}360 = R17,32201628 \times 360 \\ \\ = R6\,235,925862 \quad \checkmark\text{A} \\ \\ = R6\,235,93 \quad \checkmark\text{CA} \end{array}$	1 MA conversion 1 A simplification 1 CA rounding 1 MA conversion 1 A simplification 1 CA rounding
2.5.3	$\begin{array}{l} \text{Interest after 1 year} = R5\,000 \times 6,3\% \quad \checkmark\text{M} \\ \\ = R315 \\ \\ \text{Amount after year 1} = R5\,000 + R315 \\ \\ = R5\,315,00 \quad \checkmark\text{A} \end{array}$	1 M calculate interest for first year 1 A simplification

	<p>Interest for 2nd year = R5 315 × 6,3%</p> <p style="text-align: center;">\approx R334,845 ✓CA</p> <p>Interest for ½ year = R334,845 ÷ 2</p> <p style="text-align: center;">= R167,42 ✓M</p> <p>Value of the fixed deposit = R5 315 + R167,42</p> <p style="text-align: center;">= R5 482,42 ✓CA</p>	<p>1 CA 2nd year amount</p> <p>1 M half year interest</p> <p>1 CA simplification</p>
--	---	---

PROBABILITY / WAARSKYNLIKHEID

QUESTION / VRAAG 3

3.1.1	<p>Instrumental music ✓A</p> <p>$\frac{12}{24}$; 50% ; 0,5 ✓A</p>	<p>1 A correct answer</p> <p>1 A answer in any given form as proof</p>
3.1.2	OR 0 OR 0% OR impossible ✓A✓A	2 A correct answer
3.1.3	✓A = 0,25 ✓A	1 A correct fraction 1 A answer as decimal
3.2.1	✓A ✓S $\frac{652}{1000} = \frac{163}{250}$	1 A correct fraction 1 S simplification
3.2.2	0,65 x 100 = 65 % ✓A✓A	2 A correct answer
	OR 0,652 x 100 = 65,2 % ✓A✓A	
3.2.3	No ✓A There is still a 35% chance that it might not rain; it is not 100% certain. ✓J	1 A correct answer 1 J correct explanation
3.3.1	(a) 45 - 25 = 20 ✓A✓A (b) 22 - 10 = 12 ✓A✓A (c) 20 + 30 + 10 + 15 + 10 = 85 ✓A✓A (d) 85 + 82 = 167 ✓A✓A	2 A correct answer 2 A correct answer 2 A correct answer 2 A correct answer

3.3.2	Wangui excluded / uitgesluit ✓A✓A	1 A denominator / noemer 1 A numerator / teller
3.3.3	= ✓A ✓S	1 A correct fraction 1 S simplification
3.3.4	Male student with black eye colour / Manlike leerder met swart oogkleur ✓A✓A	1 A gender 1 A colour
3.3.5	$\times 100\%$ $\times 100\%$ $= 32,93413174\%$ $\approx 32,93\%$	1 A adding correct values 1 M percentage Calculation 1 CA percentage
3.4.1	A – 4 ✓A✓A B – Taxi ✓A✓A C- 2 ✓A✓A D – 1 ✓A✓A E – 4 ✓A✓A F – Taxi ✓A✓A G – 4 ✓A✓A	2 A correct answer 2 A correct answer 2 A correct answer 2 A correct answer 2 A correct answer 2 A correct answer 2 A correct answer
3.4.2	✓A ✓A × = ✓CA = ✓S	2 A correct values 1 CA answer 1S simplification

MAPS, PLANS AND OTHER REPRESENTIONS / KAARTE, PLANNE EN ANDER VOORSTELLINGS

QUESTION / VRAAG 4

4.1.1	176 seats ✓A✓A	2 A correct answer
4.1.2	8 wheel chairs ✓A✓A	2 A correct answer
4.1.3	North East ✓A✓A	2 A correct answer
4.1.4	F ✓A 14 ✓A	1A row 1A seat number
4.1.5	Go left from seat F15. ✓A Turn right in the aisle between row E and F. ✓A Proceed in a North-easterly direction until you reach the stage straight ahead. ✓A	1M left direction 1M right into aisle

		1 M direction to stage
4.2.1	Number scale ✓A✓A	2 A correct answer
4.2.2	It means that 1 unit on the map represents 200 units in reality. ✓J✓J	2 J explanation
4.2.3	12 doors ✓A✓A	2 A correct answer
4.2.4	West elevation ✓A✓A	2 A correct answer
4.2.5	Length = 26 mm ✓RG Breadth = 26 mm ✓RG ✓U OR Length × Breadth ✓RG ✓RG 26mm × 26mm ✓U OR Length = 2,6 cm ✓RG Breadth = 2,6 cm ✓RG Thus, 26 mm x 26 mm ✓C	1 RG measuring the length 1 RG measuring the breadth 1U correct values in mm OR 1 RG measuring the length 1 RG measuring the breadth 1C conversion to mm Measure on final copy
4.3.1	11 ✓RT✓RT	2 RT reading from Diagram
4.3.2	Clockwise ✓A✓A	2 A direction
4.3.3	Voting booths ✓A✓A	2 A correct point
4.4.1	Density = ✓SF = 2 888,88 persons per acre ✓CA = 2 889 persons per acre ✓R	1 SF substitution of correct values 1 CA simplification 1 R rounding
4.4.2	P = ✓RT ✓M ≈ 0,29 OF / OR 29,21% ✓CA	1 RT reading values 1M probability concept 1 CA correct rounded probability
4.4.3	There are provisions made for disabled spectators who don't require seats. ✓O✓O OR	2 O reason

Some people can be standing.

	OR Staff, line judges, officials, coaches, media personnel.	
4.4.4	No. 3 court, it is closest to the road. ✓O✓O ✓A	1 A correct court 2 O explanation (accept No. 2 court, it is closer to the car park)
4.4.5	West OR North West ✓A✓A	2A direction
4.4.6	Width of the screen = ✓M = 8m ✓A Measured width of screen 7 mm ✓A Scale: 7 mm : 8 m 7 mm : 8 000 mm ✓C 1 : 142,86 ✓CA Measure on final copy	1M dividing 1 A width 1 A measured length 1 C converting 1 CA unit scale NPR
4.5.1	F ✓A✓A	2A correct number
4.5.2	✓A ✓A 7 and 8	1 A correct number 1 A correct number
4.5.3	Fewer rows with seats in this region ✓O✓O OR The people in wheelchairs (physically challenged) will use it from their demarcated area. OR Guards sitting there/ technical personnel	2 O reason
4.5.4	Area of the court = 41 m x 22 m = 902m ² ✓A Seed needed = 902 m ² x 245 g/m ² ✓M = 220 990g = 220,99kg ✓CA Fescue seed = x 220,99 kg ✓M = 66,297 kg ✓CA The statement is not valid. ✓O	1 A area 1 M multiply with spread Rate 1 C converting to kg 1 M working with ratio 1 CA mass of red fescue seed 1 O conclusion

5.1.1	(a) Unscrewed ✓A✓A (b) Anti-clockwise OR left OR counter-clockwise ✓A✓A	2 A unscrewed 2 A direction
5.1.2	3 ✓A✓A	2 A 3 screws
5.1.3	3 ✓A✓A	2 A correct diagram
5.1.4	Actual length = 62 mm × 30 ✓A = 1 860 mm = 1,86 m OR Actual length = 0,062 m × 30 ✓CA = 1, 860 m ✓CA OR 6,2 cm × 30 ✓M = 186 cm = 1,86 m ✓C ✓C ✓M	1 M multiply by scale 1 A length in mm/cm 1C conversion 1 C conversion 1 M multiply by scale 1 CA length in m
5.2.1	B, C, A, D ✓A✓A	2 A correct order
5.2.2	C ✓A✓A	2 A answer
5.3	Length of table = 1,75 m Half the length of the table = 1,75 m ÷ 2 = 0,875 m ✓A If scale 1 : 8 is used Length of model = 7,5 m ÷ 8 × 1 ✓M = 0,9375 m ✓CA 0,9375 m will not fit on the actual table. Therefore the scale of 1 : 8 will NOT be suitable ✓O✓O	1 A calculating half the table size 1 M using the scale 1 CA calculating modal length 2 O deduction