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PREPARATORY EXAMINATION/ *VOORBEREIDENDE EKSAMEN*

GRADE/GRAAD 12

SEPTEMBER 2025

MATHEMATICAL LITERACY P1/ *WISKUNDIGE GELETTERDHEID V1*

MARKING GUIDELINE/*NASIENRIGLYNE*

MARKS/PUNTE: 150

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 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 consistent accuracy/Metode met volgehoue akkuraatheid
RCA	Rounding consistent with accuracy/Afronding met volgehoue akkuraatheid

This marking guideline consists of 19 pages./

Hierdie nasienriglyne bestaan uit 19 bladsye.

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NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt at 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 or map, then penalise for every extra item presented.
- As a general marking principle, if a candidate has incurred one mistake and there is evidence of sound mathematics thereafter, then that candidate should lose ONE mark only.

LET WEL:

- *As 'n kandidaat 'n vraag TWEE KEER beantwoord, sien slegs die EERSTE poging na.*
- *As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, sien die doodgetrekte (gekanselleerde) poging na.*
- *Volgehoue akkuraatheid (CA) word in ALLE aspekte van die nasienriglyne toegepas, dit hou op by die tweede berekeningsfout.*
- *Let wel: Volgehoue akkuraatheid (CA) geld NIE in die geval van 'n afbreuk NIE.*
- *Wanneer 'n kandidaat aflesings vanaf 'n grafiek, tabel, uitlegplan en kaart geneem het en ekstra antwoorde gee, penaliseer vir elke ekstra item.*
- *'n Algemene nasienbeginsel is dat, indien 'n kandidaat een fout maak en daarna voortgaan met korrekte wiskunde, die kandidaat slegs EEN punt verloor.*

QUESTION/VRAAG 1 [30 MARKS/PUNTE]		Answer Only (AO) applicable.	
Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L
1.1.1	<p>✓✓ A F</p> <p>OR</p> <p>✓✓ A The chance of an event happening/<i>Die moontlikheid dat 'n gebeurtenis kan plaasvind.</i></p>	2A correct answer	P L1 E (2)
1.1.2	<p>✓✓ A D</p> <p>OR</p> <p>✓✓ A The point at which the profit from the transactions is zero and the total sales are equal to the total costs is called the equilibrium point/ <i>Die punt waar die transaksiewins nul is en die totale verkope gelyk is aan totale koste, word die ewewigspunt genoem.</i></p>	2A correct answer	D L1 E (2)
1.1.3	<p>✓✓ A C</p> <p>OR</p> <p>✓✓ A Explains how wide the values are that reside in the middle (i.e. from 25% to 75%) of scores in a data set, excluding the top and bottom quarter/ <i>Verduidelik hoe wyd die waardes strek wat in die middel van 'n datastel lê (d.w.s. van 25% tot 75%), met uitsluiting van die boonste en onderste kwartiel.</i></p>	2A correct answer	D L1 E (2)
1.1.4	<p>✓✓ A B</p> <p>OR</p> <p>✓✓ A A situation in finance where expenses exceed the money coming into a business/'n Situasie in finansies waar uitgawes die inkomste van 'n besigheid oorskry.</p>	2A correct answer	F L1 E (2)
1.1.5	<p>H ✓✓ A</p> <p>OR</p> <p>✓✓ A The cost (in rands) per measuring unit for a specific service/ <i>Die koste (in rand) per meeteenheid vir 'n spesifieke diens.</i></p>	2A correct answer	F L1 E (2)



Q/V	Solution/ <i>Oplossing</i>	Explanation/ <i>Verduideliking</i>	T/L
1.2.1	✓✓A Box and whisker plots/ <i>Mond-en-snordiagram</i>	2A correct graph (2)	D L1 E
1.2.2	✓✓RT 36	2RT maximum marks (2)	D L1 E
1.2.3	✓MA $31 - 30 = 1$ ✓A	1MA subtracting correct values 1A simplification (2)	D L1 E
1.2.4	$\frac{\sqrt{RT}}{50} \times 100\% \quad \checkmark MA$ $= 67\%$ OR/ OF $\checkmark MA \quad \checkmark RT$ $\% \text{ mark/punt} = 2 \times 33,5$ $= 67\%$ OR/OF $\% \text{ mark/punt} = \frac{67}{100} \times 50 \checkmark RT$ $= 33,5 \checkmark A$	1RT value of Q1 (33,5) 1MA dividing by 50 and multiplied by 100% 1RT value of Q1 (33,5) 1MA multiplied by 2 1RT total marks (50) 1A value of Q1 (33,5) (2)	D L1 M
		[30]	

Q/V	Solution/Oplossing	Explanation/Verduideliking	T/L				
1.3.1	$\checkmark \checkmark A$ Value added tax/ <i>Belasting op toegevoegde waarde.</i>	2A correct concept (2)	F L1 E				
1.3.2	$\checkmark MA$ $A = 7 \times R4\,950$ $= R\,34\,650,00. \checkmark A$ OR/OF $\checkmark MA$ $A = R36\,445 - (R750 + R1\,045)$ $= R34\,650,00 \checkmark A$	1MA multiply correct values 1A value of A 1MA subtracting correct values from the sub-total 1A value of A NPU (2)	F L1 E				
1.3.3	$\checkmark \checkmark A$ 15%/Fifteen percent/ <i>Vyfien persent</i>	2RT correct percentage (2)	F L1 E				
1.3.4	VAT due/ <i>BTW verskuldig</i> $\checkmark RT$ $= R36\,445 \times \frac{15}{100} \checkmark MA$ $= R5\,466,75 \checkmark A$	1RT correct value 1MA multiplying by 15% 1A simplification (3)	F L1 E				
1.3.5	$\checkmark RT \quad \checkmark MA$ $1\,045 : 36\,445$ $209 : 7\,289 / 1 : 34,88 / 0,029 : 1 \quad \checkmark A$ <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Accept</td> </tr> <tr> <td>1 : 35</td> </tr> <tr> <td>1: 34,9</td> </tr> <tr> <td>0,03 : 1</td> </tr> </table>	Accept	1 : 35	1: 34,9	0,03 : 1	1RT correct values 1MA correct order 1A simplification (3)	F L1 M
Accept							
1 : 35							
1: 34,9							
0,03 : 1							
			[30]				

QUESTION/VRAAG 2		[30 marks/PUNTE]	
Ques	Solution	Explanation	TL
2.1.1	$\begin{aligned} & \checkmark \text{MA} \\ & \mathbf{B} = R19,99 + R79,99 + R38,99 + R61,99 + R38,99 \\ & \quad + R43,99 + R41,99 + R18,99 + R96,99 \\ & = R441,91 \quad \checkmark \text{A} \end{aligned}$	<p>1MA adding all correct values</p> <p>1A value of B AO</p>	F L1 M (2)
2.1.2	<p>Price of rice/Prys van rys</p> $\begin{aligned} & \checkmark \text{MA} \\ & = 396,91 - (17,99 + 69,99 + 34,99 + 59,99 \\ & \quad + 32,99 + 39,99 + 17,99 + 79,99) \\ & = R396,91 - R353,92 \checkmark \text{MA} \\ & = R42,99 \checkmark \text{CA} \end{aligned}$	<p>1MA adding all correct values</p> <p>1MA subtracting from the total</p> <p>1CA price of rice AO</p>	F L2 E (3)
2.1.3	Spar $\checkmark \checkmark \text{RT}$	<p>CA from 2.1.1</p> <p>2RT correct store.</p>	F L2 M (2)
2.1.4	<ul style="list-style-type: none"> • Distance between the store and the supplier. To cover transportation costs/<i>afstand tuseen die winkel die verskaffer:</i> • Location of the store/<i>Ligging van die winkel</i>. • Store reputation or standard is good. <i>Branding/Winkelreputasie of standaard.</i> • Franchised (range of prices accepted) retailer. Example: Spar is franchised./<i>Eksklusiewe (reeks prysse aanvaar) kleinhandelaar.</i> Voorbeeld: Spar is eksklusieve kleinhandelaar. • Quality of the goods (freshness/expiry date)/<i>kwaliteit van goedere (varsheid/verval datum)</i> 	2O reason (2)	F L4 D
2.1.5	<p>Probability_(non-food)/<i>Waarskynlikheid nie-voedsel nie)</i></p> $\begin{aligned} & = \frac{2}{9} \checkmark \text{MA} \\ & = 0,22 \checkmark \text{CA} \end{aligned}$	<p>1MA numerators and denominator</p> <p>1CA answer</p> <p>AO/NPB</p>	P L2 M (2)



Ques	Solution	Explanation	TL
2.1.6	✓✓ RT Maize Meal/ <i>Mielieemeel</i>	2RT correct food item (2)	F L2 M
2.1.7	<p>✓✓O The grocery store/The retail shop may not be available in one's area of living./<i>Die kruidenierswinkel/kleinhandelwinkel is dalk nie in 'n mens se woongebied beskikbaar nie.</i></p> <p>OR/OF</p> <p>✓✓O The conducive/convinient environment./<i>Die bevorderlike/gerief omgewing.</i></p> <p>OR/OF</p> <p>✓✓O The treatment one receives at the shop./<i>Die behandeling wat mens by die winkel kry.</i></p> <p>OR/OF</p> <p>✓✓O The security around the shop./<i>Die sekuriteit om die winkel.</i></p>	2O reason (2)	F L4 D

Ques	Solution	Explanation	TL
2.2.1 (a)	<p>Annual taxable income/ <i>Jaarlikse belasbare inkomste</i> $\checkmark \text{MA}$ $= 13 \times \text{R}46\,294,08$ $= \text{R}601\,823,04 \checkmark \text{A}$</p> <p style="text-align: center;">OR</p> <p>Normal taxable income = $\text{R}46\,294,08 \times \checkmark \text{MA}$ $= \text{R}555\,528,96$</p> <p>$\therefore \text{R}555\,528,96 + \text{R}46\,294,08$ $= \text{R}601\,823,04 \checkmark \text{A}$</p>	<p>1MA multiplying monthly income by 13 1A annual taxable income</p> <p>1MA multiplying monthly income by 12</p> <p>1A annual taxable income AO</p>	F L2 M
2.2.1 (b)	<p>$\checkmark \checkmark \text{A}$</p> <p>Bracket 4/4/Four/Salary block Four/ <i>Kerf 4/4/vier/Salaris blok 4</i></p>	<p>CA from 2.2.1 (a)</p> <p>2 CA correct tax brackets</p>	F L2 M
2.2.2	<p>Annum tax due/ <i>jaarlikse belasting verskuldig</i></p> <p>$\checkmark \text{RT} \quad \checkmark \text{SF}$ $= 121\,475 + \frac{36}{100} \times (601\,823,04 - 512\,800)$</p> <p>$= 121\,475 + \frac{36}{100} \times (89\,023,04)$</p> <p>$= 121\,475 + 32\,048,2944$</p> <p>$\checkmark \text{CA}$ $= 153\,523,29 - 17\,235 \checkmark \text{MA}$</p> <p>$= 136\,288,29 \checkmark \text{CA}$</p> <p>Monthly tax due/ <i>Maandelikse belasting verskuldig</i></p> <p>$= \frac{\text{R}136\,288,2944}{12}$</p> <p>$= \text{R}11\,357,36 \checkmark \text{CA}$</p> <p>The claim is VALID/ <i>Die bewering is KORREK.</i> $\checkmark \text{O}$</p>	<p>CA from 2.2.1 (a)</p> <p>1RT correct bracket 1SF correct substitution</p> <p>1CA simplification 1MA subtracting rebate 1CA annual tax</p> <p>If learners work with bracket 1 Allocate 4/7 marks</p> <p>1CA monthly tax 1O conclusion</p>	F L4 D



Ques	Solution	Explanation	TL
2.2.3	<p style="text-align: center;">✓✓ O</p> <p>Contributing to a registered medical aid/scheme./<i>Bydra tot 'n geregistreerde mediese fonds/skema</i></p> <p style="text-align: center;">OR/OF</p> <p style="text-align: center;">✓✓ O</p> <p>Contributing toward a retirement annuity fund/<i>Dra by tot 'n uittree-annuïteitsfonds.</i></p> <p style="text-align: center;">OR/OF</p> <p>Donate to a registered charity organisation/<i>donasie aan geregistreerde welsynsorganisasie</i></p>	2O reason	F L4 D
2.2.4	<p style="text-align: center;">✓✓ O</p> <p>To ensure that those who earn more contribute a greater share to the national coffers (or treasury)./<i>Om te verseker dat diegene wat meer verdien 'n groter deel tot die nasionale koffers (of tesourie) bydra.</i></p> <p style="text-align: center;">OR/OF</p> <p style="text-align: center;">✓✓ O</p> <p>It ensures fair contribution across different levels of income/<i>Dit verseker billike bydrae oor verskillende inkomstevlakke.</i></p>	2O reason	F L4 D
			(2)
			[30]

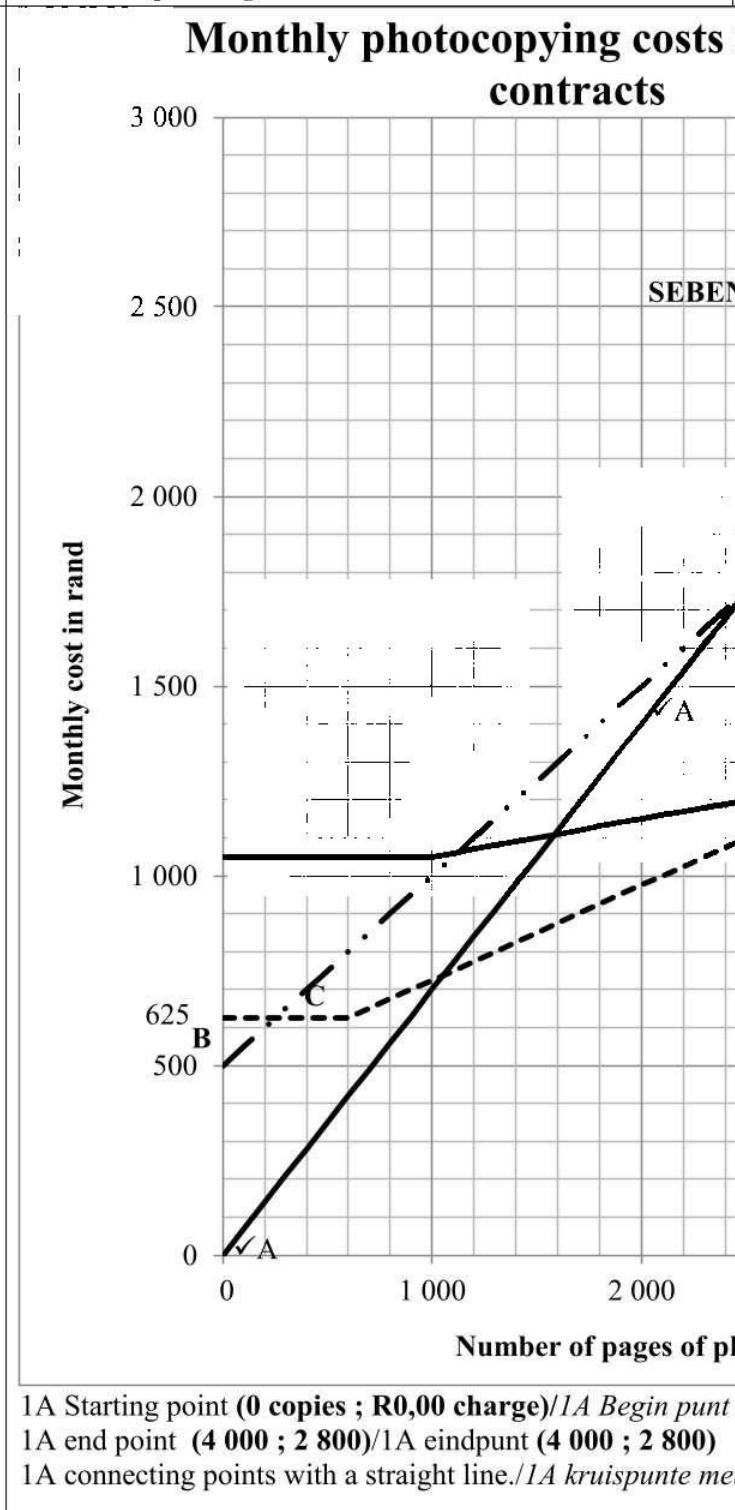


QUESTION 3/VRAAG 3		[30 Marks/PUNTE]	
Ques	Solution	Explanation	TL
3.1.1	✓✓A Thirty million seven hundred and fifty-four thousand nine hundred and thirty one/ <i>Dertig miljoen sewehonderd vier en vyftig duisend negehonderd een en dertig.</i>	2A correct number in words (2)	D L1 E
3.1.2	✓A ✓A Multiple/compound bar graph./ <i>saamgestelde staafgrafiek</i>	1A multiple/compound 1A bar graph (2)	D L1 E
3.1.3	✓ A ✓A 2021 and/en 2022 Accept/Aanvaar: 2,79% and/en 3,8% [1 mark] OR/OF ✓A ✓A 2020 and/en 2021 Accept/Aanvaar: 0,11% and/en 2,79% [1 mark]	1A 2021 1A 2022 1A 2020 1A 2021 (2)	D L2 D
3.1.4	Teenager pregnant/ <i>Tienerswangerskappe</i> $= (30\ 754\ 931) \times \frac{1}{3} \times 3,8\% \checkmark \text{MA}$ $= 10\ 251\ 643,67 \times 3,8\%$ 389 562 or 389 563 ✓ CA	1MA multiplying population by $\frac{1}{3}$ and 3,8% 1CA number of females (2)	D L3 M
3.1.5 (a)	✓✓ O Late registration from 2019./ <i>Laar registrasies vir 2019</i>	2O reason (2)	D L4 M
3.1.5 (b)	✓✓ O The number was too small./ <i>Die getal was te klein</i> OR/OF ✓✓ O 14-year-olds did not fall pregnant/births not registered./ <i>14-jariges was nie swanger nie/geboortes nie geregistreer nie.</i>	2O reason (2)	D L4 M



QUESTION/VRAAG 4		[36 MARKS/PUNTE]	
Q/V	Solution/ <i>Oplossing</i>	Explanation/ <i>Verduideliking</i>	T&L
4.1.1	$\checkmark \checkmark A$ Continuous data/deurlopende data. $\checkmark \checkmark A$	2A continuous (2)	D L1 M
4.1.2	No mode/none/Geen modus nie/geen	2A no mode (2)	D L1 E
4.1.3 (a)	$\checkmark MA$ $44 ; 48,8 ; 50 ; 51 ; 52 ; 53,7 ; 54 ; 56 ; 56,1 ; 56,6$ Median/ <i>Mediaan</i> $\therefore (52 + 53,7) \div 2 \checkmark MA$ $= 52,85/52,9 \checkmark CA$	1MA ascending/descending 1MA adding and dividing by 2 1CA median AO (3)	D L2 E
4.1.3 (b)	$44,35 = \frac{40 + 41 + 42 - 42,5 + 46 + 46 + 2C - 53 + 53}{10}$ $44,35 = \frac{363,5 + 2C}{10} \checkmark MA$ $10 \times 44,35 = 363,5 - 2C$ $2C = 443,5 - 363,5 \checkmark S$ $\therefore C = \frac{80}{2}$ $C = 40 \checkmark CA$	1MA adding all weights and mean concept 1MA changing the subject of the formula 1CA value of C AO (3)	D L2 E
4.1.4	IQR = Upper quartile – Lower quartile <i>IKR</i> = Boonste kwarftiel – Onderste kwartiel $= Q_3 - Q_1$ $6,9 = 57 - Q_1 \checkmark SF$ $Q_1 = 57 - 6,9 \checkmark MA$ $= 50,1 \checkmark CA$	1SF correct substitution 1MA changing the subject of the formula 1CA lower quartile. (3)	D L3 E

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
4.2.1	1 100 ✓✓ RT [Accept values from 1 050 to 1 100]/ [Aanvaar waardes van 1 050 tot 100]	2RT number of copies (2)	F L2 M
4.2.2	✓✓O The monthly cost do not change with the number of copies made/Die uitgawes verander nie met die aantal kopieë gemaak nie.	2O correct explanation (2)	F L2 M
4.2.3	Contract 3/Kontrak 3 ✓✓RT	2RT correct contract (2)	F L2 E
4.2.4	Total cost/Totale koste ✓RT ✓✓A ✓A ✓A = R625 + R0,25 (number of copies - 600) OR/OF Total cost/Totale koste ✓RT ✓✓A ✓A = R625 + R0,25 (n - 600) ✓A where n is the number of copies/waar n die aantal bladsye.	1RT constant cost (R625) 2A R0,25 1A number of copies 1A minus 600 1RT constant cost (R625) 2A R0,25 1A number of copies 1A minus 600 (5)	F L4 D

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L																											
4.2.5	<p style="text-align: center;">Monthly photocopying costs for different contracts</p>  <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Contract</th> <th>Number of pages (X)</th> <th>Cost (Y)</th> </tr> </thead> <tbody> <tr> <td>Contract 1</td> <td>0</td> <td>625</td> </tr> <tr> <td>Contract 1</td> <td>4000</td> <td>2800</td> </tr> <tr> <td>Contract 2</td> <td>0</td> <td>500</td> </tr> <tr> <td>Contract 2</td> <td>4000</td> <td>1500</td> </tr> <tr> <td>Contract 3</td> <td>0</td> <td>1000</td> </tr> <tr> <td>Contract 3</td> <td>4000</td> <td>1000</td> </tr> <tr> <td>SEBENZA</td> <td>0</td> <td>0</td> </tr> <tr> <td>SEBENZA</td> <td>4000</td> <td>2800</td> </tr> </tbody> </table> <p>1A Starting point (0 copies ; R0,00 charge)/1A Begin punt (0 kopieë ; R0,00) 1A end point (4 000 ; 2 800)/1A eindpunt (4 000 ; 2 800) 1A connecting points with a straight line./1A kruispunte met 'n reguit lyn</p>	Contract	Number of pages (X)	Cost (Y)	Contract 1	0	625	Contract 1	4000	2800	Contract 2	0	500	Contract 2	4000	1500	Contract 3	0	1000	Contract 3	4000	1000	SEBENZA	0	0	SEBENZA	4000	2800	(3)	F L2 M
Contract	Number of pages (X)	Cost (Y)																												
Contract 1	0	625																												
Contract 1	4000	2800																												
Contract 2	0	500																												
Contract 2	4000	1500																												
Contract 3	0	1000																												
Contract 3	4000	1000																												
SEBENZA	0	0																												
SEBENZA	4000	2800																												



Ques	Solution	Explanation	TL
4.3	<p>Interest 1st year/<i>Rente 1^{ste} jaar</i></p> $= \frac{6}{100} \times R1\,250\,000 \checkmark \text{MA}$ $= R75\,000 \checkmark \text{CA}$ <p>Amount at the end of year 1</p> $= R1\,250\,000 + R75\,000$ $= R1\,325\,000 \checkmark \text{CA}$ <p>Interest 2nd year:/ <i>Rente 2^e jaar</i></p> $= \frac{6}{100} \times R R1\,325\,000$ $= R79\,500 \checkmark \text{CA}$ <p>Amount at the end of year 2</p> $= R1\,325\,000 + R79\,500$ $= R1\,404\,500 \checkmark \text{CA}$ <p>Interest for/<i>rente vir</i> $\frac{1}{4}$ a year/'n jaar:</p> $= \frac{6}{100} \times \frac{1}{4} \times R1\,404\,500$ $R21\,067,50$ <p>Amount at the end of year $\frac{1}{4}$</p> $= R1\,404\,500 + R21\,067,50$ $= R1\,425\,567,50 \checkmark \text{CA}$ <p>Total interest earned/<i>totale rente verdien</i></p> $= R1\,425\,567,50 - R1\,250\,000$ $= R175\,567,50 \checkmark \text{CA}$ <p>∴ Interest is not enough/sufficient $\checkmark O$</p>	<p>1MA calculating the interest 1CA 1st year interest</p> <p>1CA amount end of year 1</p> <p>1CA 2nd year interest</p> <p>1CA amount end of year 2</p> <p>1MA calculating % for quarter of a year</p> <p>1CA amount end of $\frac{1}{4}$ year</p> <p>1CA total interest 1O conclusion</p>	F L3 M



<p>Total interest earned/<i>totale rente verdien</i></p> $= R\ 75\ 000 + R\ 79\ 500 + R21\ 067,50$ $= R175\ 567,50 \checkmark CA$ <p>\therefore Interest is not enough/sufficient $\checkmark O$</p> <p style="text-align: center;">OR/OF</p> <p>Amount at the end of year 1</p> $= \frac{106}{100} \times R1\ 250\ 000 \checkmark MA$ $= R1\ 325\ 000 \checkmark CA$ <p>Amount at the end of year 2</p> $= \frac{106}{100} \times R1\ 325\ 000 \checkmark MA$ $= R1\ 404\ 500 \checkmark CA$ <p>Interest for/<i>rente vir</i> $\frac{1}{4}$ a year/'n jaar:</p> $= \frac{6}{100} \times \frac{1}{4} \times R1\ 404\ 500$ $= R21\ 067,50$ <p>Amount at the end of year $\frac{1}{4}$</p> $= R1\ 404\ 500 + R21\ 067,50$ $= R1\ 425\ 567,50 \checkmark CA$ <p>Total interest earned/<i>totale rente verdien</i></p> $= R1\ 425\ 567,50 - R1\ 250\ 000$ $= R175\ 567,50 \checkmark CA$ <p>\therefore Interest is not enough/sufficient/ Die rente is nie genoeg nie/nie voldoende nie $\checkmark O$</p>	<p>1CA total interest 1O conclusion</p> <p>1A increased percentage 1MA calculating the interest 1CA amount end of year 1</p> <p>1MA calculating the interest 1CA amount end of year 2</p> <p>1MA calculating % for quarter of a year</p> <p>1CA amount end of $\frac{1}{4}$ year</p> <p>1CA total interest 1O conclusion</p>
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Ques	Solution	Explanation	TL
	<p>Total amount /totale bedrag</p> $\begin{aligned} & \checkmark MA \quad \checkmark A \checkmark MA \checkmark MA \checkmark A \checkmark MA \\ & = R1\,250\,000 \times 1,06 \times 1,06 \times 1,015 \\ & = R1\,425\,567,50 \checkmark CA \end{aligned}$ <p>Total interest earned/totale rente verdien</p> $\begin{aligned} & = R1\,425\,567,50 - R\,1\,250\,000 \\ & = R175\,567,50 \checkmark CA \\ & \checkmark O \\ & \therefore \text{Interest is not enough/sufficient/Die rente is nie genoeg nie/nie voldoende nie} \end{aligned}$	1A increased percentage 1MA multiplying by R1 250 000 1MA multiplying by 1,06 1MA multiplying by another 1,06 1A 0,015 1MA multiplying by 1,015 1CA amount end of $2\frac{1}{4}$ years 1CA total interest 1O conclusion	(9)
	<div style="border: 1px solid black; padding: 5px;"> -If learners use the formula, it must be 100% correct for full marks. -If there is a mistake with the formula, allocate 0 marks </div>		
	[36]		

QUESTION/VRAAG 5		[24 MARKS/PUNTE]	
Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.1.1	✓✓A Descending/Dalend	2A correct order (2)	D L1 E
5.1.2	✓✓O Salaries of all the top five world players is in 100 000 000/100 millions/Salarisse van al die top vyf wêreldspelers is in 100 000 000/100 miljoen. OR/OF Salary is in hundred million digits.✓✓O	2O correct explanation (2)	F L4 M
5.1.3	Christiano Ronaldo salary/se salaris = 200 0000 000 + 60 000 000 = 260 000 000 ✓MA salary in rands/ salaris in rand = $\frac{260\ 000\ 000}{0,05644617}$ ✓A = R 4 606 158 389 ✓CA Top 11 DSTV players' salary/Top 11 spelers se salaris : C Ronaldo's = $6\ 860\ 000 : 4\ 606\ 158\ 389$ ✓MCA = 1 : 671,45 ✓CA	1A total salary 1MCA numerator 1A denominator 1CA simplification 1MCA ration in correct order 1CA simplified NPR (6)	F L3 M
5.1.4	Probability/Moontlikheid = $\frac{12}{22} \times 100\%$ ✓ MA = 54,55% ✓CA	Accept Probability = $\frac{1}{11} \times 100\%$ = 9,09% Full marks 1A numerator and denominator 1MA multiply by 100% 1CA answer (3)	P L3 M

Q/V	Solution/Oplossing	Explanation/Verduideliking	T&L
5.2.1	$\checkmark \text{MA}$ $\mathbf{G} = 3\ 484\ 336 - (2\ 073\ 501 + 43\ 343 + 448\ 122 + 293\ 743)$ $\checkmark \text{MA}$ $= 3\ 484\ 336 - 2\ 858\ 709$ $= 625\ 627 \checkmark \text{CA}$	1MA adding correct values 1MA subtracting from total 1CA value of G AO (3)	F L2 E
5.2.2	<p>Total income /totale inkomste</p> $\checkmark \text{MA}$ $= 716\ 603 + 2\ 227\ 636 + 251\ 027 + 519\ 604 + 312\ 290$ $= 4\ 027\ 160 \checkmark \text{A}$ <p>H = Total income/totale inkomste – Total expenditure/totale uitgawes</p> $= R4\ 027\ 160 - R3\ 832\ 604 \checkmark \text{SF}$ $= R194\ 556 \checkmark \text{CA}$ <p>It is a Surplus /Dit is 'n surplus $\checkmark \text{CA}$</p>	1MA adding correct values 1A total income 1SF correct substitution 1CA simplification 1CA surplus	F L2 E
5.2.3	<p>% increase/verhoging =</p> $\frac{\text{Difference in employee costs}}{\text{Original budgeted employee costs}} \times 100\%$ $= \frac{1\ 040\ 938\ 000 - 961\ 353\ 000}{961\ 353\ 000} \times 100\%$ $= 8,28 \checkmark \text{CA}$ $\approx 8,3 \% \checkmark \text{CA}$	1RT correct values 1A numerator 1A denominator	F L2 E

TOTAL/TOTAAL: 150