



## NATIONAL SENIOR CERTIFICATE

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**GRADE 12** 

MATHEMATICAL LITERACY P1

COMMON TEST

JUNEOUZSHYSICS.com

**MARKS: 100** 

TIME: 2 hours

This question paper consists of 11 pages.

#### INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FOUR questions. Answer ALL the questions.
- 2. Number the answers correctly according to the numbering system used in this question paper.
- 3. Start EACH question on a NEW page.
- 4. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
- 5. Show ALL calculations clearly.

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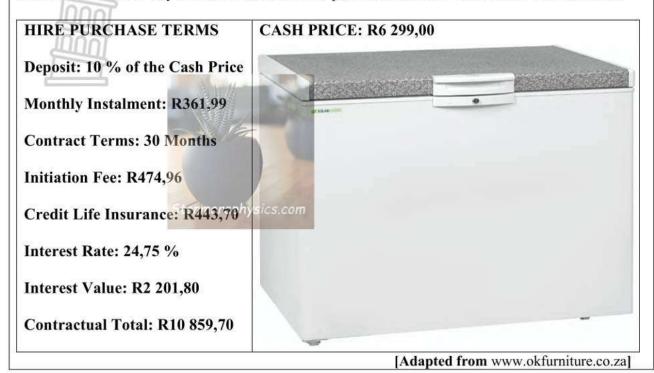
Round off ALL final answers appropriately according to the

- Round off ALL final answers appropriately according to the given context, unless stated otherwise.
- 7. Indicate units of measurement, where applicable.
- 8. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
- 9. Write neatly and legibly.

(2)

### QUESTION 1

1.1 Mrs. Nkosi wants to buy a Chest Freezer on hire-purchase. She saw an advert at OK Furniture.



Use the information above to answer the questions that follow.

- 1.1.1 Define the term hire *purchase* in the given context. (2)
- 1.1.2 Write down the contract terms in years. (2)
- 1.1.3 Calculate the deposit to be paid. (2)
- 1.1.4 Determine the outstanding balance after paying the deposit. (2)
- 1.1.5 Show how the contractual total (R10 859,70) was determined.

1.2 A survey was conducted in one of the high schools in KZN about the types of movies learners prefer. The table below shows the type of movies that learners prefer.

TABLE 1: TYPES OF MOVIES PREFERRED BY LEARNERS

Type of Movies (A)	oe of Movies (A) Number of Learners (B)		earners (B)
Action			238
Horror	(E)	W.	90
Romance	1		452
Drama		Vac	67
Science Fiction			31
Thriller		1	9
Comedy			105
Soap	Staurinie	repnysics.com	208
Crime			50

Use TABLE 1 above to answer the questions that follow.

- 1.2.1 State the difference between categorical and numerical data. (2)
- 1.2.2 Classify each of the columns above (A and B) as categorical or numerical. (2)
- 1.2.3 Arrange the type of movie preferences from the most popular to the least popular. (2)
- 1.2.4 Write down the movie type that can be used to determine the median. (2)
- 1.2.5 Calculate the total number of learners who took part in the survey. (2)

[20]

#### **QUESTION 2**

2.1 Sandile, a self-employed tree feller (tree cutter), has to pay income tax directly to SARS every year. He invests 25% of all the money he earns every month in a savings account that pays 8,3% interest per annum compounded monthly to raise enough money for income tax.

TABLE 2 below shows Sandile's month-by-month earnings with missing information.

TABLE 2: SANDILE'S MONTH-BY-MONTH EARNINGS AND INTEREST

Month	Income	Opening Balance	Amount Saved	Interest Earned	Closing Balance
January	R8 976,00	R 0,00	R2 244,00	R15,52	R 2 259,52
February	R7 478,63	R 2 259,52	R1 869,66	R12,93	R 4 142,11
March	R9 021,51	R 4 142,11	R2 255,38	R15,60	R 6413,09
April	R7 937,00	R 6 413,09	R1 984,25	R13,72	R 8 411,06
May	R6 825,73	R 8 411,06	R1 706,43	R11,80	R10 129,29
June	R5 204,99	A	R1 301,25	R 9,00	R11 439,54
July	R9 858,12	R11 439,54	R2 464,53	R17,05	R13 921,12
August	R9 904,03	R13 921,12	R2 476,01	R17,13	R16 414,26
September	R7 211,29	R16 414,26	R1 802,82	R12,47	R18 229,55
October	R8 771,64	R18 229,55	R2 192,91	R15,17	R20 437,63
November	R9 999,01	R20 437,63	R2 499,75	R17,29	R22 954,67
December	R4 365,47	R22 954,67	R1 091,37	В	C

[Adapted from Sandile's savings account]

#### NOTE: INTEREST IS EARNED ON AMOUNT SAVED

Use the information and TABLE 2 above to answer the questions that follow.

- 2.1.1 Define *closing balance* according to the given context. (2)
- 2.1.2 Calculate the monthly interest rate as a percentage, rounded off to 4 decimal places. (3)
- 2.1.3 Write down the value of **A** (opening balance for June). (2)
- 2.1.4 Sandile claims that the closing balance for December was R1 098,92 more than the opening balance for December.

Calculate the missing values **B** and **C**, to verify his claim.

(7)

2.2 Sandile's sister lives and works in Australia. She wants to send Sandile money to buy more machines for tree felling. Given below are Standard Bank currency exchange rates.

Standard Bank						
FOREX OPENING INDIC	ATION	RATESF	OR 26 Apı	ril 2023 as	at 16:00	
Rates for amounts up to	R 200	000				
Closing rate history for	date:	2023-04-	26 16:00:3	34.035 ✓	Load	
		NAK				
		Bank	Buying		Bank S	Selling
Country	Cur	T/T	Cheques	Foreign	Cheques	Foreigr
		100		Notes	and T/T	Notes
QUOTATIONS ON BASI	S RAN	D PER UN	T FOREIG	N CURRI	ENCY	
BRITSH POUND	GBP	22.6327	21.2081	22.6334	23.3485	23.3487
EURO	EUR	20.0661	18.0047	20.0661	20.7292	20.7295
UNITED STATES DOL	USD	18.2098	15.9193	18.2090	18.5743	18.5740
QUOTATIONS ON BASI	S FOR	EIGN CUR	RENCY P	ER R1		
UAE DIRHAM	AED	.2045			.1949	
AUSTRALIAN DOLLAR	AUD	.0838	.0924	.0838	.0806	.0806
BRAZILLIAN REAL	BRL	.2784			.2729	
BOTSWANA PULA	<b>BWP</b>	.7504	.7987	.7504	.6886	.6886
CANADIAN DOLLAR	CAD	.0754	.0861	.0754	.0727	.0727
SWISS FRANC	CHF	.0491	.0603	.0491	.0472	.0472
CHINESE YUAN	CNY	.3841		.3841	.3697	.3697

Use the exchange rates above to answer the following questions.

e rate the bank is going to use to

- 2.2.1 Sandile's sister sends him Australian dollars, identify the rate the bank is going to use to give him South African rands.(2)
- 2.2.2 Sandile is expecting to get R5 970 if his sister sends him 500 AUD (Australian dollars).Verify with calculations whether or not his expectation will be met. (3)
- 2.2.3 Sandile is planning to visit his brother in America. Nedbank sells 1 USD for R18,8637 and charges a commission of 2,02% on the rands amount, with a minimum charge of R101,00.

Calculate the US dollars he will get from R20 000. (6)

2.3 Financial institutions use loan factor tables to help customers know what the monthly repayment on their bond will be. TABLE 3 below is a factor table from Cape Town Properties.

TABLE 3: CAPE TOWN PROPERTIES FACTOR TABLE

Interest %			Ye	ars		Ç-
	5	10	15	20	25	30
9,75	21,12	13,08	10,59	9,49	8,91	8,59
10,00	21,25	13,22	10,75	9,65	9,09	8,78
10,25	21,37	13,35	10,90	9,82	9,26	8,96
10,50	21,49	13,49	11,05	9,98	9,44	9,15
10,75	21,62	13,63	11,21	10,15	9,62	9,33
11,00	21,74	13,78	11,37	10,32	9,80	9,52
11,25	21,87	13,92	11,52	10,49	9,98	9,71
11,50	21,99	14,06	11,68	10,66	10,16	9,90
11,75	22,12	14,20	11,84	10,84	10,35	10,09
12,00	22,24	14,35	12,00	11,01	10,53	10,29

[Adapted from capetownproperty.blaauwberg.net]

Monthly Repayment = Loan Amount  $\div$  1 000  $\times$  Loan Factor

Use TABLE 3 above to answer the following questions.

- 2.3.1 Calculate the monthly repayment on a home loan of R1 250 000 to be paid over a period of 30 years at 11,75% p.a interest. (2)
- 2.3.2 Mrs Fulcher bought a house for R1 250 000 in Cape Town and her monthly bond repayment is R12 612,50 for 30 years. She claims that the real cost of the loan is exactly R4 540 500.

Use calculations to verify her claim.

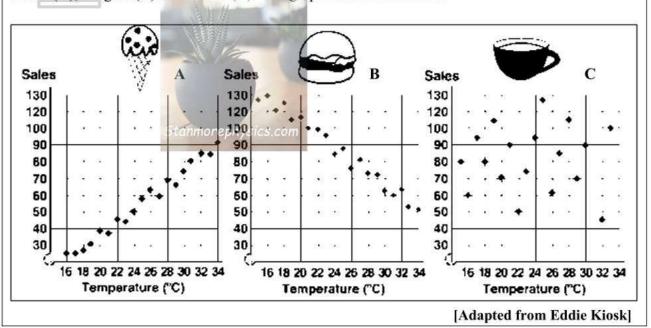
Real cost of loan = Monthly Repayment × Loan Period in Months

[31]

(4)

#### **QUESTION 3**

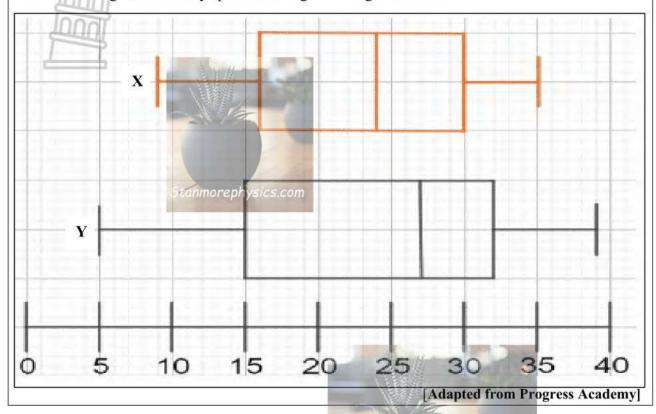
3.1 Eddie Kiosk management asked a group of Mathematical Literacy learners to draw graphs that will assist to determine if there is a relationship between daily temperatures and the sales of ice cream (A), burgers (B) and coffee (C). The graphs are shown below.



Use the graph and the information above to answer the questions that follow.

- 3.1.1 Name the type of graphs drawn above. (2)
- 3.1.2 Match each graph with the correct type of relationship (no correlation, positive correlation, negative correlation). Write the letter and type of correlation next to it. (3)
- 3.1.3 Based on the graphs above, what advice would you give to Eddie Kiosk management if the Kiosk would like to stock the product that is not weather dependent? (2)

3.2 The following box and whisker plots show the number of hours Grade 12 (X) and Grade 10 (Y) learners of Progress Academy spent watching TV in a given month.



Use the diagram and information above to answer the questions that follow.

- 3.2.1 Write down the median number of hours Grade 10 learners spent watching TV. (2)
- 3.2.2 Calculate the range for the number of hours Grade 12 learners spent watching TV. (2)
- 3.2.3 Find the inter quartile ranges for the two grades. (4)
- 3.2.4 By comparing the box and whisker plots, which grade do you think spent more time watching TV? (4)
- 3.2.5 128 Grade 10 learners took part in the survey. Calculate the number of learners who spent less than 32 hours watching TV. (3)

  [22]

#### **QUESTION 4**

4.1 The Zondi household gets its electricity supply from uMlalazi Municipality. Given below are the tariff rates for 2022/2023.

Block	Consumption (kWh)	Service Charge (R)	Rate (R) per kWh Excluding VAT
1.	0 - 50	446	2
2.	51 - 350	446	3
3.	351 - 600	446	3
4.	Greater than 600	446	3

[Adapted from www. umlalazi.gov.za]

N.B: Service charge includes 15% VAT.

Use the tariff rates to answer the questions that follow.

- 4.1.1 Calculate the percentage increase in the tariff rate for Block 2 from Block 1. (2)
- 4.1.2 The Zondi household used 283 kWh of electricity in March 2023. Calculate the total amount paid by the household including VAT. (5)
- 4.1.3 In February 2023, the household paid R1 209,83 for electricity including VAT. Calculate:
  - (a) Charge excluding VAT and Service Charge. (2)
  - (b) Total electricity consumption for February 2023. (6)
- 4.2 Given below are the 10 most downloaded apps (in million) worldwide in 2022.

1	TikTok 672M	(672)	6	Telegram 310M	(310)
2	Instagram 548M	(548)	7	Subway Surfers 304M	(304)
3	WhatsApp 424M	(424)	8	Facebook 298M	(298)
4	CapCut 357M	(357)	9	Stumble Guys 254M	(254)
5	Snapchat 330M	(330)	10	Spotify 238M	(238)

[Extracted from www.verloop.io]

Use the information and the graph to answer the questions that follow.

4.2.1	Write down the app with the highest number of downloads from the data above.	(2)
4.2.2	Determine the total number of people who downloaded the apps in 2022.	(3)
4.2.3	Calculate the mean number (in full) of people downloading social media apps in 2022.	(4)
4.2.4	If a person who downloaded an app in 2022 was chosen at random, calculate the probability (as a decimal fraction) that the person downloaded WhatsApp.	(3) [27]
	Stanmorephysics.com	[100]

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**GRADE 12** 

## **MATHEMATICAL LITERACY P1**

**COMMON TEST** 

**JUNE 2023** 

## **MARKING GUIDELINE**

**MARKS: 100** 

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RD/RM	Reading from a table/ graph/ diagram/map
SF	Correct substitution in a formula
0	Opinion/ reason/deduction/example/Explanation
J	Justification
R	Rounding off
F	deriving a formula
AO	Answer only full marks
P	Penalty e.g. for units, incorrect rounding off etc.
NPR	No penalty for rounding / units

This marking guideline consists of 7 pages.

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Ques	TION 1 [20 MARKS]: ANSWER ONLY FULL MARKS Solution	Explanation	T&L
1.1.1	It is an arrangement whereby Mrs Nkosi agrees to a contract	2A correct answer	F
	to acquire the chest freezer by paying a deposit and then settle the outstanding balance over 30 monthly equal repayments. ✓ A	271 correct answer	L1
		(2)	
1.1.2	No of years $=\frac{30}{13.000}$	1MA dividing 30 by 12	F
	No or years = 12√MA	1A answer	L1
	= 2,5 <b>√</b> A	Accept two and half years	
S 705110528		(2)	
1.1.3	Deposit = R6 299,00 $\times$ 10% $\checkmark$ MA = R629,90 $\checkmark$ A	1MA multiplying by 10% 1A answer	F L1
1 1 1		(2)	F
1.1.4	Outstanding balance = $R6\ 299,00 - R629,90\checkmark$ MCA = $R5\ 669,10\checkmark$ CA	CA from 1.1.3 1MCA subtracting deposit 1CA answer	L1
	OR		
	Outstanding balance = R6 299,00 $\times$ 90% $\checkmark$ MA = R5 669,10 $\checkmark$ A	1MA multiplying by 90% 1A answer	
		(2)	
1.1.5	✓RT ✓M	1RT for 30	F
1.1.5	Contractual total = $30 \times R361,99$	1M multiplying by	L1
	= R10 859,70	R361,99 (2)	Li
1.2.1	Categorical data is descriptive or qualitative, as data is classified and	(2)	DH
	organised into categories and Numerical data consists of quantities or numerical values. ✓✓A	2A correct explanation	L1
	The state of the s	(2)	0.5
1.2.2	A: categorical ✓ A	1A for categorical	DH
	B: numerical ✓ A	1A for numerical (2)	LI
1.2.3	Romance, Action, Soap, Comedy, Horror, Drama, Crime,	2A correct answer	DH
	Science Fiction, Thriller 🗸 🗚	(2)	L1
1.2.4	Horror√√CA	CA from Q1.2.3	DH
overster (F.	Stanmorephysics.com	2CA correct answer	L1
1.2.5	Total number of learners = 1 250 ✓ A	2A correct answer	DH
1.4.3	Total number of learners = 1 250 V A	(2)	L1
		[20]	8

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# Mathematican Stanmore Physics.com Marking Guideline

	TION 2 [31 MARKS]	1000 W 500 000 W 10		r .
2.1.1	It is the amount of money in Sandile's account at the end of	2A correct definition		F
	each month. ✓ ✓ A			L1
Po. 150 V 1000 Vo. Po	4411	The Indiana was a wall of the Indiana was a	(2)	
.1.2	Monthly interest rate = $\frac{8.3 \checkmark RT}{12 \checkmark M}$	1RT for 8,3		F
	127 M	1M dividing by 12		L2
	≈ 0,6917%⊀R	1R Rounding	2010	
	0,071770 K	(	3)	
2.1.3	<b>A</b> = R10 129,29✓✓RT	2RT correct amount		F
			(2)	L1
2.1.4	$\mathbf{B} = \frac{8,3}{12}\% \times R1\ 091,37\checkmark M$	1M multiplying by		F
	$\mathbf{B} = \frac{12}{12} \% \times \text{KI } 091,37 \text{ M}$	R1 091,37		L4
	D7.55 (A	1A correct interest		
	= R7,55 ✓ A	CA from B		
	$C = R22954,67 + R1091,37 + R7,55 \checkmark M$	13.6 - 1.1		
	$= R24053,59\checkmark CA$	1M adding amounts		
	- K2 + 033,33 * GR	1CA closing balance		
	Difference = R24 053,59 − R22 954,67 ✓ M	CA from C		
	= R1 098,92 ✓ CA	1M subtracting 1CA answer		
	- KI 090,92 - GII	ICA answer		
	His claim is CORRECT ✓ O	1O opinion		
	OR	OR		
	$\mathbf{B} = \frac{8,3}{12}\% \times R1\ 091,37\checkmark M$	1M multiplying by		
	$\frac{\mathbf{B}}{12} = \frac{1}{12} \sqrt{0} \times \mathbf{K} \mathbf{I} = 0$	R1 091,37		
	= R7,55√A	1A correct interest		
	= K7,55* A	CA from B		
	$C = R22954,67 + R1091,37 + R7,55 \checkmark M$			
	= R24 053,59 ✓ CA	1M adding amounts		
		1CA closing balance		
	Total of amount saved and interest earned = R1 091,37 + R7,55 ✓ M	CA from C		
	= R1 098,92√CA	1M adding		
		1CA answer		
	His claim is CORRECT ✓ O	1O opinion		
		l o opinion		
	OR			
	9.2	5644 80 55 KC 80 VOIL 50		
- 8	$B = \frac{8,3}{12}\% \times R1\ 091,37\checkmark M$	1M multiplying by		
- 8	12	R1 091,37		
	= R7,55√A	1A correct interest		
	11,55 11			
	The second secon	1M adding		
	Total of amount saved and interest earned = R1 091.37 + R7.55 ✓ M			
	Total of amount saved and interest earned = R1 091,37 + R7,55 ✓ M = R1 098,92 ✓ CA	1CA answer		
		1CA answer		
		1CA answer		
		1CA answer		

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	_ /.		
Marking	Guio	ie	ine

ř	Marking Guideline		
	C = R22 954,67 + R1 098,92 ✓ M = R24 053,59 ✓ CA	1M adding amounts 1CA closing balance	
	His claim is CORRECT ✓ O	10 opinion (7)	
2.2.1	R1 = 0,0838 AUD ✓ ✓ A	2A correct answer (2)	F L1
2.2.2	Amount = 500 AUD ÷ 0,0838 ✓ M = R5 966,59 ✓ CA His expectation will NOT be met, ✓ 0	CA from 2.2.1 1M dividing 500 by 0,0838 1CA correct answer 1O opinion (3)	F L4
2.2.3	Commission = $2,02\% \times R20\ 000 \checkmark M$ = $R404,00 \checkmark A$ Amount to be exchanged = $R20\ 000,00 - R404,00 \checkmark M$ = $R19\ 596 \checkmark A$ US Dollars = $R19\ 596 \div 18,8637 \checkmark M$ = $$1\ 038,82 \checkmark CA$	1M multiplying by 2,02% 1A correct answer  1M subtracting R404 from R20 000 1A correct answer 1M dividing R19 596 by 18,8637 1CA answer  (6)	F L3
2.3.1	Monthly repayment = R1 250 000 ÷ 1 000 × 10,09 = R12 612,50 ✓ A	1RT loan factor  1A correct answer  (2)	F L2
2.3.2	Loan period = 360 months ✓ C  Real Cost of Loan = R12 612,50 × 360 ✓ SF  = R4 540 500,00 ✓ CA  Her claim is valid. ✓ O	1C converting to months  1SF for substitution 1CA answer 1O opinion  (4)	F L4
		[31]	

	TION 3 [22 MARKS]		I
3.1.1	Scatter plots ✓ ✓ A	2A correct answer	DH
	ELLI CONTRACTOR OF THE PROPERTY OF THE PROPERT	(2)	L1
3.1.2	A: positive correlation ✓ A	1A positive correlation	DH
		55	L2
	B: negative correlation ✓ A	1A negative correlation	
	1000	-	
	C: no correlation ✓ A	1A no correlation	
		(3)	
3.1.3	It is better for the company to sell coffee because sales do not		DH
	depend on weather. $\checkmark \checkmark 0$	2 O for reason	L4
		(2)	
3.2.1	27✓✓RG	1RG correct reading	DH
		(2)	L3
3.2.2	Range = 35 − 9 ✓ M	1M subtracting 9 from 35	DH
	= 26√A	1A correct answer	L2
		AO	50/3/8/2
		(2)	
3.2.3	Grade 12 IQR = 30 − 16 Mnmorephysics.com	1M subtracting 16 from	DH
	= 14√CA	30	L2
	Grade 10 IQR = 32 − 15 ✓ M	1CA answer	22.586
	= 17 CA	1M subtracting 15 from	
		32	
		1CA answer	
		(4)	
3.2.4	Grade 10√A	1A correct grade	DH
	Greater median ✓ O	10 greater median	L4
	Greater IQR ✓ O	10 greater IQR	2000
	Greater maximum ✓ 0	10greater maximum	
		(4)	
3.2.5	Upper Quartile = 75%✓M	1M for 75%	DH
		100000000000000000000000000000000000000	L3
	Number of learners = 75% × 128 ✓ M	1M multiplying 128 by	
	= 96 × A	75%	
	70.11	1A answer	
		(3)	

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QUES	TION 4 [27 MARKS]		
4.1.1	Percentage increase = $\frac{\checkmark M}{^{3-2}} \times 100\%$ = $50\% \checkmark A$	1M for subtracting correct values  1A correct answer  (2)	F L2
4.1.2 4.1.3 a	283 kWh = 50 kWh + 233 kWh  Cost excluding VAT = $(50 \times R2) \checkmark M + (233 \times R3) \checkmark M$ = $R799,00 \checkmark S$ Cost including VAT = $R446,00 + (115\% \times R799,00) \checkmark M$ = $R1364,85 \checkmark CA$ OR  Cost excluding VAT = $(50 \times R2) + (233 \times R3) \checkmark M$ = $R799,00 \checkmark S$ VAT = $15\% \times R799,00 \sim S$ VAT = $15\% \times R799,00 \sim S$ Cost including VAT = $R446,00 + R799,00 + R119,85 \checkmark M$ = $R1364,85 \checkmark CA$ Charge excluding VAT = $(R1209,83 - R446,00) \div 1,15 \checkmark M$ = $R664,20 \checkmark A$	1M multiplying 50 by 2 1M multiplying 233 by R3 1S simplifying 1M adding R446 and multiplying by 115% 1CA answer OR 1M multiplying by R2 and R3 1S simplifying 1A for VAT 1M adding VAT and R446 to R799 1CA answer (5) 1M subtracting R446 & dividing by 1,15 1A correct answer	F L3
	OR	OR	
	Charge excluding VAT = (R1 209,83 − R446,00) × 100 ÷ 115 ✓ M = R664,20 ✓ A	1M subtracting R446 & dividing by 115 1A correct answer	

=	Marking Guideline		X
4.1.3b	Block 1 Cost: $R2 \times 50 = R100 \checkmark A$	1A Correct cost for block	F L3
	Block 2 usage = $\frac{R664,20-R100\checkmark M}{3\checkmark M}$	1M subtracting R100 from	123
	Joek 2 disage 3√M	R664,20	
	= 188,07 kWh ✓ CA	1M dividing by 3 1CA answer	
	1000L	TCA allswel	
	Total usage = $50 \text{ kWh} + 188,07 \text{ kWh} \checkmark \text{M}$	1M adding kWh	
	= 238,07 kWh√CA	1CA answer	
	OR	OR	
	FO(P2) 1 LWI-(P2) P(C120 (M	1M equation	
	$50(R2) + kWh(R3) = R664,20 \checkmark M$ $R3 \times kWh = R664,20 - R100 \checkmark M$	1M subtracting R100	
	$= R564,20 \div R3\checkmark M$	1M dividing by 3 1S simplifying	
	kWh = 188,07 ✓S	15 sampanyang	
	Total usage = $50 \text{ kWh} + 188,07 \text{ kWh} \checkmark \text{M}$	1M Adding correct values	
	= 238,07ckWh < CAm	1CA answer	
121		(6)	DII
4.2.1	Tik Tok. ✓✓A	1A correct answer (2)	DH L2
		(2)	LZ
4.2.2	✓ M	1M for a set of 5 figures	DH
	Total = 672M + 548M + 424M + 357M + 330M + 310M +	1M for the second set	L2
	$304M + 298M + 254M + 238M \checkmark M$ = 3 735 million $\checkmark$ A	1A answer	
	= 3 / 33 mmon · A	(3)	
4.2.3		CA from 4.2.2	DH
	Mean = 3735 million ✓ MCA 10 ✓ A Comorephysics.com	1MCA for numerator	L2
		1A denominator 1CA answer	
	= 373,5 million ✓ CA	1C conversion	
	= 373 500 000 ✓ C	(4)	
4.2.4	424M-/A	CA from 4.2.2	DH
	$P(WhatsApp) = \frac{424M \checkmark A}{3735M \checkmark MCA}$	1A for 424 million 1MCA for dividing by 3	L2
		735 million	
	≈ 0,11√CA	1CA answer	
		NPR	
		(3)	
		TOTAL MARKS: 100]	