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education

Department of Education FREE STATE PROVINCE

## **JUNE PAPER 1**

## GRADE 12

## **MATHEMATICAL LITERACY**



This question paper consists of 9 pages.

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### **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.
- 6. 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.



### **QUESTION 1**

TABLE1: Salary slip show	ing Ms Hlaha	ne's earnings and deduc	ctions:
OFFICE IMAGING SOLU	HONS	D 1 11	
PO Box 342		Period end date:	
Tabel View		2024/04/30	
Employee code: Hlahane01		Date started: 2008/01/01 ID number: 7408050045078	
Employee Name: Miss Hlah	nane		
Job Title: Managing directo	r		
Earnings (R)		Deductions (R)	
Basic salary /SICS.com	35 000,00	Tax	5 111,00
		UIF	A
		Medical Aid	1 350,00
		Pension	2 625,00
Total earnings	35 000,00	Total deductions	9 436.00
Not nov			R

Use the information in Table 1 above to answer the questions that follow.

1.1.1	Write down the name of the employer.	(2)
1.1.2	Explain the meaning of the term <i>basic salary</i> .	(2)
1.1.3	Write the acronym UIF in full.	(2)
1.1.4	Calculate A, the UIF contribution.	(3)
1.1.5	Determine the net pay (B) for this employee.	(2)



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1.2 The diagram below represents the marks achieved in a Mathematical Literacy test for Class B at Kahobotjha Secondary School in Sasolburg.

Use the information given above and answer the following questions.

1.2.1Identify the type of diagram drawn above.(2)1.2.2Write down the median for Class B.(2)1.2.3Determine the percentage of learners who obtained 19 to 25 marks.(2)1.2.4Calculate the difference between the maximum and minimum marks for Class B.(3)[20]



(2)

(7)

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### **QUESTION 2**

2.

ABLE 2: DOI	estic Water Tariffs for Metsimal	olo Municipality in 2023/2024	
Block	Water usage	Tariff (Rands) VAT excl.	
Block 1	0 - 6  kl	R9,93	
Block 2	6,1 – 12 kl	R23,05	
Block 3	12,1-20 kl	R26,61	
Block 4	20,1 – 30 kl	R37,65	
Block 5	30,1 – 45 kl	R46,34	
Block 6	More than 45 kl	R52.67	

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

- 2.1.1 Explain the meaning of the term *tariff* in the given context.
- 2.1.2 Write down the maximum number of kilolitres of water that can be charged in block 2. (2)
- Calculate the total amount, including VAT, that Miss De Waal will pay for the 2.1.3 number of kilolitres that she used in June 2023.



2.2 Miss De Waal wants to remodel her dining room. She saw a nice dining room suite at a Furniture store that she would like to purchase.



Use the information above to answer the questions that follow.

2.2.1	Determine the difference between the original price and the discounted price.	(2)
2.2.2	Write down the deposit as a percentage of the discounted price.	(3)
2.2.3	Calculate the total amount to be paid after 3 years on the hire purchase option is used.	(4)
2.2.4	How much would Miss De Waal save if she paid cash for the dining room suite instead of buying on hire purchase.	(2)
2.2.5	Write down one advantage of buying an item on hire purchase.	(2)
Miss D She we	e Waal decided to take a personal loan in order to buy the dining room suite in cash. nt to two Banks and was offered the following:	
Bank A	A: R20 000 at 10% p.a. Simple interest for 3 years.	
Bank B	<b>3</b> : R20 000 at 11,5% p.a. Compound interest for 2 years.	
Determ	ine, showing ALL calculations, which option will be cheaper for Miss De Waal.	(8)

[32]

2.3

### **QUESTION 3**



In a survey, 40 grade 12 learners from Setjhaba se Maketse Combined school were asked how many hours per week do they spend practicing Mathematical Literacy.

Their responses (to the nearest hour) are given below.

5	10	12	4	3	12	7	10	8	6
6	8	4	10	8	7	6	9	3	7
CLASS I	<b>B</b> 2	3	3	4	5	6	7	7	7

Use table 3 and the information above to answer the questions that follow.

3.1	State if the above data is a sample and population of all the learners at Setjhaba se Maketse Combined school.	(2)
3.2	Arrange the data for class A above in descending order.	(2)
3.3	Calculate the mean number of hours spent practising Mathematical Literacy for class B.	(3)
3.4	Determine the interquartile Range (IQR) for number of hours for class A.	(5)
3.5	Determine the probability (as a decimal) of randomly selecting a learner that practiced for more than 6 hours.	(3)
3.6	Give one possible reason why some learners have fewer practising hours.	(2) [ <b>17</b> ]



### **QUESTION 4**

4.1



Mr Mathews is a 65-year-old employee who earns a basic salary of R40 165 per month. He contributes 7,5% of his basic salary towards pension fund and pays medical aid for himself and his 3 children.

### TABLE 4.1: Tax rates for 2023/2024 tax year

<b>Taxable Income (R)</b>	Rate of Tax (R)
1 - 237.100 m	18% of taxable income
237 101 - 370 500	42 678 + 26% of taxable income above 237 100
370 501 - 512 800	77 362 + 31% of taxable income above 370 500
512 801 - 673 000	121 475 + 36% of taxable income above 512 800
673 001 - 857 900	179 147 + 39% of taxable income above 673 000
857 901 - 1 817 000	251 258 + 41% of taxable income above 875 900
1 817 001 and above	644 489 + 45% of taxable income above 1 817 000

Age	Threshold 2023/2024
Below age 65 years	R95 750
Age 65 years to below 75 years	R148 217
Age 75 years and over	R165 689

Rebate	Rebate Amount (R)	
Primary	R17 235	
Secondary (65 years +)	R9 444	
Tertiary (75 years +)	R3 145	
MTC (Medical tax credit)	Dowmonth	
in te (incurcur cux create)	Per month	
Taxpayer	R364	
Taxpayer First dependant	R364 R364	

[Source: www.sars.gov.za]

Use TABLE 4.1 and the information above to answer the questions that follow.

4.1.1	Write down the abbreviation SARS in full.	(2)
4.1.2	Show how the tax threshold value of R148 217 was calculated.	(3)
4.1.3	Determine his annual medical tax credit for him and his 3 children.	(4)
4.1.4	Mr Mathews claimed that is annual taxable income is R445 831,50. Verify, show all calculations, if his claim is correct.	(5)
4.1.5	Hence, calculate his annual income tax.	(6)

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4.2 Mining plays a significant role in the economy of our nation. The information below indicates how the mining industry performed in 2022.

<b>TABLE 4.2:</b>	TABLE 4.2: Performance of the mining industry in 2022					
Metal and minerals	Number of employees	Employees earnings (in billion rands)	Royalties paid	Production (in tons)	Total sales (in billion rands)	
Manganese	10 846	3,5	R802 million	16,4 million	47,6	
Chrome	19 693	6,1	R850 million	17,5 million	22,8	
Diamond	15 728	4,7	R362 million	7,2 million	13,3	
Iron ore	19 092	6,6	R2,1 billion	70,5 million	71,4	
Gold	95 130	24,3	R288 million	101,3 million	72,6	
Platinum	164 513	52,1	R1,12 billion	262,9 million	126,6	
Coal	92 230	27,9	R2,1 billion	258,9 million	139,3	
Total						

[Adapted from mineralscouncil.com]

### NOTE:

**Royalties** are fees imposed by government on either the amount of minerals produced at a mine or the revenue or profit generated by the minerals sold from a mine.

**A Ton** is equal to 1 000kg.

Use TABLE 4.2 above to answer the questions that follow.

4.2.1	Are the number of employees above regarded as discrete or continuous data?	(2)
4.2.2	Identify the type of 'metals and minerals' that are paid the LEAST royalties.	(2)
4.2.3	Determine the median value for the total production.	(2)
4.2.4	Calculate the probability (as a percentage) of randomly selecting a type of 'metals and minerals' that had total sales of more than 100 billion rands in 2022.	(3)
4.2.5	Write down the modal value for 'royalties' paid.	(2) [ <b>31</b> ]

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FINAL MARKING GUIDELINES/NASIENRIGLYNE

MARKS/PUNTE: 1505tanmorephysics.com

SYMBOL/KODE	EXPLANATION/VERDUIDELIKING
Μ	Method/Metode
MA	Method with accuracy/Metode met akkuraatheid
CA	Consistent accuracy/Volgehoue akkuraatheid
Α	Accuracy/Akkuraatheid
С	Conversion/Herleiding
S	Simplification/Vereenvoudiging
RT	Reading from a table/graph/map/diagram/Lees vanaf
	tabel/kaart/grafiek/diagram
SF	Correct substitution in a formula/Korrekte vervanging in formule
0	Opinion/Explanation/Reasoning / Opinie/Verduideliking/Redenasie
Р	Penalty, e.g. for no units, incorrect rounding off, etc./Penalisering, bv. vir geen
	eenhede/verkeerde afronding, ens.
R	Rounding off/ <i>Afronding</i>
NPR	No penalty for rounding/Geen penalisering vir afronding nie
AO	Answer only/Slegs antwoord
MCA	Method with constant accuracy/Metode met volgehoue akkuraatheid

These marking guidelines consist of 9 pages. *Hierdie nasienriglyne bestaan uit 9 bl* 

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#### FS/June P1 2024

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Grade 12 June Exam.

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
  - If a candidate has crossed out (cancelled) an attempt to 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 and 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, merk slegs die EERSTE poging.
- As 'n kandidaat 'n antwoord van 'n vraag doodtrek (kanselleer) en nie oordoen nie, merk die doodgetrekte (gekanselleerde) poging.
- 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 en ekstra antwoorde gee, penaliseer vir elke ekstra item.
- *'n Algemene merkbeginsel is dat indien 'n kandidaat een fout maak en daarna voortgaan met korrekte wiskunde, dat die kandidaat slegs een punt verloor.*

QUEST	[ION/VRAAG 1 [20 MARKS/PUNTE] AN	SWER ONLY FULL MARKS	
$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L
1.1.1	Office Imaging Solutions ✓ ✓ A	2A correct name (2)	F L1 E
1.1.2	Salary before <b>benefits or allowance</b> are added. Salaris voor voordele bygevoeg word. <b>Do not accept: Salary before deductions, because</b> <b>it's a definition of Gross not Basic Salary.</b>	20 correct explanation (2)	F L1 E
1.1.3	Unemployment Insurance Fund ✓✓O Wekloosheidsversekeringsfonds	20 correct explanation (2)	F L1 E
1.1.4	A = R9 436 - R5 111 - R1 350 - R2 625 = R350 OR OR A = $\frac{1}{100} \times R35 000$ = R350	1RT correct values 1MA subtracting from the total 1A simplification 1RT <b>R35 000</b> 1MA calculating a percentage 1A simplification	F L1 E
1.1.5		1 MA subtracting values1CA simplification(2)	F L1 E

1.2.1Box and whisker plot $\checkmark \checkmark A$ Snor en blaar diagram2A correct nameD L1Accept Box and Whisker $\checkmark \checkmark A$ OR Whisker Box2A correct nameL11.2.2Median /Mediaan = 21,5 $\checkmark \checkmark A$ 2A correct medianD L11.2.350% $\checkmark \checkmark A$ 2A correct percentageD L11.2.4Difference/Verskil = 29 - 15 $\checkmark MA \checkmark RT$ IRT correct values IMA subtracting correct values ICA simplificationD L11.2.4Difference/Verskil = 29 - 15 $\checkmark MA \checkmark RT$ IRT correct values ICA simplificationD L1	O/V	Solution/Oplossing	Explanation/Verduideliking	T/L
Whisker BoxD1.2.2Median /Mediaan = 21,5 $\checkmark \checkmark A$ 2A correct medianD1.2.350% $\checkmark \checkmark A$ 2A correct percentageD1.2.4Difference/Verskil = 29 - 15IRT correct values 1MA $\checkmark RT$ D1.2.4Difference/Verskil = 29 - 15IRT correct values 1MA subtracting correct values 1CA simplificationD(3)(3)	1.2.1	Box and whisker plot $\checkmark \checkmark A$ Snor en blaar diagram Accept Box and Whisker $\checkmark \checkmark A$ OR Box plot $\checkmark \checkmark A$ OR	2A correct name (2)	D L1 E
1.2.2Median /Mediaan = 21,5 $\checkmark \checkmark$ A2A correct medianD L1 E1.2.3 $50\% \checkmark \checkmark$ A2A correct percentage(2)D L1 M1.2.4Difference/Verskil = 29 - 15IRT correct values IMA $\checkmark$ RT = 14IRT correct values ICA simplificationD L1 E		Whisker Box		
1.2.3 $50\% \checkmark A$ 2A correct percentageD1.2.4Difference/Verskil = 29 - 15IRT correct values 1MA subtracting correct values 1CA simplificationD1.2.4(3)	1.2.2	Median / <i>Mediaan</i> = 21,5 $\checkmark \checkmark$ A	2A correct median (2)	D L1 E
1.2.4Difference/Verskil = $29 - 15$ MA $\checkmark$ RTIRT correct valuesD $= 14$ $\checkmark$ A1RT correct valuesL1 $E$ 1CA simplification(3)	1.2.3	50% ✓ ✓ A	2A correct percentage (2)	D L1 M
(3)	1.2.4	Difference/Verskil = $29 - 15$ $\checkmark$ RT = 14 $\checkmark$ A	1RT correct values 1MA subtracting correct values 1CA simplification	D L1 E
THE REPORT OF A DESCRIPTION OF A			(3)	



QUE	STION/VRAAG 2 [32 MARKS/PUNTE]		
$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L
2.1.1	✓✓O It is a rate/charge/amount charged per kilolitre of water used. * <i>Tarief is 'n koers/heffing/bedrag wat per kiloliter</i> water gehef word	20 correct explanation (2)	F L1 E
	water genej word.		F
2.1.2	6 kℓ ✓ ✓ A	2A correct answer NPU (2)	L1 M
2.1.3	First/eerste 6 k $\ell$ = 6 k $\ell$ × R9,93 $\checkmark$ MA	1MA multiplying correct values	F L3
	$=$ R59,58 $\checkmark$ A	1A correct amount	D
	Next/Volgende 6 k $\ell$ = 6 kl × R23,05		
	$=$ R138,30 $\checkmark$ CA	1CA amount for next k $\ell$	
	Next/volgende $8 \text{ kl} = 8 \text{ kl} \times \text{R26,61}$		
	$= R212,88  \checkmark CA$	1CA amount for last $k\ell$	
	Total excluding VAT/Tottal BTW uitgesluit		
	= R59,58 + R138,30 + R212,88		
	$=$ R410,76 $\checkmark$ CA	1CA total excluding VAT	
	Total including VAT /Totaal BTW ingesluit		
	$= R410,76 \times \frac{115}{100} \checkmark M$	1M calculating VAT	
	= R472,37√CA	1CA total excluding VAT	
	OR		
	$VAT/BTW = R410,76 \times \frac{15}{100}$ $\checkmark M$ = R61,61	1M calculating VAT	
	Total including VAT = $R410,76 + R61,261$		
	<i>Totaal BTW ingesluit</i> = $R472,37$ $\checkmark$ CA	1CA total including VAT (7)	

$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L
2.2.1	✓ MA Difference = R23 999,95 – R19 999,95	1MA subtracting correct values	F L1 E
	$Verskil = R4\ 000\checkmark A$	1A simplification (2)	L
2.2.2	Percentage = $\frac{\checkmark A}{R19999,95} \times 100$ Persentasie $\checkmark A$ = 10% $\checkmark CA$	1A numerator 1A denominator 1CA simplification	F L2 M
		AO NPR (3)	
2.2.3	Number of months = $3 \times 12$ Aantal maande = $36 \checkmark A$ Total amount = (R930 × 36) + R2 000 Totale bedrag = R35 480 $\checkmark CA$	1A for 36 1M multiply by instalment (R930) 1M adding deposit (R2 000) 1CA simplification (4)	F L3 M
2.2.4	✓MCA Saving = R35 480 – R19 999,95 Spaar = R15 480,05 ✓MCA	CA from 2.2.3 reprosession 1MCA subtracting values 1CA simplification AO (2)	F L2 E
2.2.5	Paying for the item while using it. $\checkmark \checkmark O$ Betaal vir item terwyl jy dit gebruik.	20 correct advantage	F L4 M
	OR/OF		
	No need to have cash. $\checkmark \checkmark O$ Nie nodig om kontant te hê nie. <b>OR</b> / <b>OF</b>		
	Paaiemente is beskostigbaar.		
	OR/OF		
	Credit is insured. Krediet is verseker.	(2)	
	(Any relavant answer) ( <i>Enige relevante antwoord</i> )		

$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L
2.3	Simple interest - Bank A/Enkelvoudige rente – Bank A		F L4 D
	Interest = R20 000 × $\frac{10}{100}$ $\checkmark$ MA Rente = R2 000 $\checkmark$ A	1MA calculating interest 1A interest amount	
	Total interest = R2 000 × 3 <i>Totale rente</i> = R6 000 $\checkmark$ CA	1CA total interest for 3 years	
	Total amount = $R20\ 000 + R6\ 000$ Totale Bedrag = $R26\ 000$ $\checkmark$ CA	1CA total for Bank A	
	Compound interest – Bank B/Saamgestelde rente		
	$1^{\text{st}} \text{ year} = \text{R20 } 000 \times \frac{11,5}{100} \checkmark \text{M}$	1M calculating interest	
	= R2 300		
	= R20 000 + R2 300		
	= R22 300 ✓ CA	1CA amount for 1 <sup>st</sup> year	
	$2^{nd}$ year = R22 300 × $\frac{11,5}{100}$		
	2 de jaar = R2 564,50		
	= R22 300 + R2 564,50		
	= R24 864,50 ✓CA		
	Bank B is cheaper. ✓O	1CA amount for 2 <sup>nd</sup> year	
	Bank B is goedkoper	10 conclusion	
	OR/OF		
	Total amount = R20 000 × $\frac{111,5}{100}$ × $\frac{111,5}{100}$ Totale bedrag	1M multiply by 111,5 1M multiply by 111,5	
		1CA answer	
	Bank B is cheaper. VO Stanmore physics.com		
	Bank B is goedkoper	10 conclusion (8)	

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Grade	12 P1 Ju	ine	

QUE	ESTION/VRAAG 3 [17 MARKS/PUNTE]			
$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L	
3.1	Sample ✓ ✓ A Steekproef	2A sample (2)	D L1 E	
3.2	12 12 10 10 10 9 8 8 8 7 7 7 6 6 6 5 4 4 3 3 <sup>V</sup> A	2A arrange in descending order (2)	D L1 E	
3.3	$Mean/ Gemiddeld$ $= \frac{2+2+3+3+4+5+6+\cdots 12.}{20} \checkmark A$	1A adding values 1A concept of mean	D L2 M	
	$=\frac{145}{20} \checkmark A$			
	= 7,25 ✓CA	1CA mean (3)		
3.4	$Q1 = \frac{5+6}{2} \checkmark MA$	CA from 3.2 1MA adding and dividing values	D L3 D	
	= 5,5 ✓ CA	1CA value of Q1		
	$Q3 = \frac{9+10}{2}$			
	= 9,5 ✓CA	1CA correct answer Q3		
	$IQR = Q3 - Q1  \checkmark A$	1A correct formula		
	= 9,5 - 5,5			
	$=4 \checkmark CA$	1CA simplification (5)		
3.5	Probability = $\frac{25}{40} \frac{\checkmark A}{\checkmark A}$	1A numerator 1A denominator	P L2 E	
	= 0,625 ✓CA	1CA simplification NPR (3)		
3.6	Laziness/ House chores/ Loadshedding ✓ ✓ O (any other relevant answer) Luiheid/Huistakies/Beurtkrag (enige ander relevante antwoord)	20 correct opinion (2)	D L4 E	

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QUES	QUESTION/VRAAG 4 [32 MARKS/PUNTE]			
$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L	
4.1.1	South African Revenue ServiceS ✓✓A Suid-Afrikaanse Inkomstediens	2A SARS in full (2)	F L1 E	
4.1.2	Tax threshold       = R17 235 + R9 444 $\checkmark$ M         Belastingdrempel       = R26 679 $\checkmark$ CA <u>R26 679</u> $\checkmark$ M         0,18       = R148 216,666         = R148 217	1M adding correct rebates 1CA total rebates 1M divide with 18% (3)	F L3 D	
4.1.3	Annual Medical tax credit/Jaarlikse mediese belastinkrediet $\checkmark$ RT $\checkmark$ M = (R364 × 2 × 12) + (R246 × 2 × 12) $\checkmark$ M	1RT correct values (364 and 246) 1M multiply by 2 1M multiply by 12	F L3 M	
	= R8 736 + R5 904 = R14 640 $\checkmark$ CA	1CA simplification		
	Annual Medical tax credit/Jaarlikse meidese belastingkrediet = $(R364 + R246) \checkmark RT$ = $R610 \times 2 \times 12 \checkmark M$ = $R14.640 \checkmark CA$	1RT correct values (364 and 246) 1M multiply by 2 1M multiply by 12		

### FS/June 2024

<b>Q</b> / <i>V</i>	Solution/Oplossing		Explanation/Verduideliking	T/L
4.1.4	Annual income Jaarlikse inkomste	= R40 165 × 12	1A annual income	F L3 M
		$=$ R481 980 $\checkmark$ A	1MA multiply by 7,5%	
	Annual pension	$= R481 980 \times \frac{7,5}{100} \checkmark MA$	1CA annual pension	
	Jaarlikse pensioen	D2(140.50		
		$= R36 148,50  \checkmark CA$		
	Annual taxable incon Jaarlikse belasbare i jaarlikse pensioen	ne = Annual income – Annual pension nkomste = Jaarlikse inkomste –	CA annual taxable income	
	<i>J</i>	= R481 980 $-$ R36 148,50	10 conclusion	
		= R445 831,50√CA		
	He is correct. $\checkmark O$ Hy is reg.			
	OR/ <i>0F</i>			
	Monthly pension Maandelikse persioe	$= R40 \ 165 \times \frac{7,5}{100} \sqrt{MA}$	1MA multiply by 7,5%	
		= R3 012,38		
	Annual pension Jaarlikse pensioen	= R3 012,38 × 12		
		$=$ R36 148,50 $\checkmark$ CA	1CA annual pension	
	Annual income	= R40 165 × 12		
	Suur linse mikomste	= R481 980 ✓A	TCA annual medine	
	Annual taxable incon Jaarlikse belasbare i Jaarlikse pensioen	ne = Annual income – Annual pension nkomste = Jaarlikse inkomste –		
	<b>F</b>	= R481 980 $-$ R36 148,50	CA annual taxable income	
		= R445 831,50 ✓ CA		
	He is correct. ✓O <i>Hy is reg</i> .		10 conclusion (5)	

		1	
$\mathbf{Q}/V$	Solution/Oplossing	Explanation/Verduideliking	T/L
		CA from 4.1.3 and 4.1.4	F
4.1.5	Annual income tax /Jaarlikse inkomste belasting		L3
	✓ A = R77 362 + 31% of income above R370 500	1A correct tax bracket	М
		1SF substitution	
	= R77 362 + (0,31 × R75 331,50) orephysics.com		
	= R77 362 + R23 352,77		
	$= R100 714,77 \checkmark CA$	1CA simplification	
	= R100 714,77 - R17235 - R9444 $M$	1M subtract both rebates	
	$= R74\ 035,77 - R14\ 640 \checkmark M$	1M subtract MTC	
	= R59 395,77 ✓ CA	1CA income tax (6)	
4.2.1	Discreet data ✓✓A Diskrete data	2A correct type of data (2)	D L1 E
4.2.2	Gold $\checkmark \checkmark A$ Goud	2A correct type	D L1 E
	OR		
	288 000 0000 OR 288 million	(2)	D
4.2.3	✓ MA Median/ <i>Mediaan</i> = 7,2 16,4 17,5 70,5 101,3 258,9 262,9	1MA arranging values	L2 M
	= 70,5 million tons/ <i>miljoen ton</i> $\checkmark$ CA	1CA median AO NPU (2)	
			Р
4.2.4	$P = \frac{2}{7} \times 100$ $\checkmark A$	1A numerator	L2 M
	// ✓A	TA denominator	IVI
	= 28571 CA	1CA simplification	
	20,57170	AO	
		<b>NPR</b> (3)	
4.2.5	R2,1 billion/ <i>miljard</i> $\checkmark \checkmark A$	2A correct mode (2)	D L1 E
		(2)	Е