education
Department of Education
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GRADE 12 – ANSWER BOOK 2025 *Confidential*

Preparatory Examination
Answer Book

SURNAME	
NAME (S)	

Sequence No. on mark sheet

BOOK NUMBER		OF	BOOKS

SUBJECT CODE	M L I T Z
PAPER NUMBER	1
SUBJECT NAME	MATHEMATICAL LITERACY

MARKER					MODERATOR'S INITIALS IN RELEVANT BLOCK											
Question	Marks	Marker's Code & Initials	Marks	DH	Marks	Cluster	Marks	SES	Marks	SBA	Marks	SBA
1												
2												
3												
4												
5												
TOTAL												

READ INSTRUCTIONS ON THE NEXT PAGE.

Teacher signature: …… Date: ……

This answer book consists of 22 pages.

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FOLLOW THESE INSTRUCTIONS CAREFULLY.

1. Clearly write your SURNAME and NAME(s) in the space provided. ONE letter per block.
2. Answer ALL the questions in the spaces provided.
3. No pages may be torn from this answer book.
4. Read the instructions which may be given in each examination paper.
5. Candidates may not retain an answer book or remove it from the examination room.
6. Answers MUST be written in black/blue ink as distinctly as possible. Pencils may be used for drawing graphs.
7. Do not write in the margins.
8. If you require additional space for your answers:
   - 8.1 Use the additional space provided at the end of the answer book.
   - 8.2 When answering a question in additional space, indicate clearly the question number in the column on the left-hand side.
9. Draw a neat line through any work that must not be marked.

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QUESTION 1

	Solution	Marks
1.1.1		(2)
1.1.2		(2)
1.1.3		(2)
1.1.4		(2)
1.1.5		(2)
1.2.1		(2)
1.2.2		(2)
1.2.3		(2)
1.2.4		(2)

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	Solution	Marks
1.3.1		(2)
1.3.2		(2)
1.3.3		(2)
1.3.4		(3)
1.3.5		(3)
		[30]

QUESTION 2

2.1 ANNEXURE A

PRICES OF NINE GROCERY ITEMS OF THE SAME BRAND FROM SEVEN GROCERIES STORES, MARCH 2024.

	NAMES OF GROCERY STORES						
ITEM	**Checkers**	**Pick n Pay**	**Woolworths**	**Spar**	**Shoprite**	**Makro**	**Food Lover's**
White Bread	R19,99	R18,99	R19,99	R17,99	R18,99	R19,99	R15,99
Sunflower Oil	R79,99	R74,99	R79,99	R69,99	R79,99	R61,95	R59,99
Maize Meal	R38,99	R38,99	R38,99	R34,99	R38,99	R29,95	R36,99
White Sugar	R69,99	R71,99	R61,99	R59,99	R69,99	R54,95	R62,99
Milk	**R34,99**	R34,99	R38,99	R32,99	R33,99	R29,95	**R29,99**
Rice	R46,99	R43,99	R43,99	…	**R46,99**	**R41,95**	**R43,99**
Flour	R42,99	R42,99	R41,99	R39,99	**R42,99**	**R34,95**	**R41,99**
Soap	R18,99	R17,99	R18,99	R17,99	R18,99	**R15,95**	**R18,95**
Toilet paper	R79,99	R74,99	R96,99	R79,99	R79,99	**R71,00**	R79,95
TOTAL	**R432,91**	**R419,91**	**B**	**R396,91**	**R430,91**	**R360,64**	**R390,83**

[Source: https://businesstech.co.za]

NOTE: Grocery items include food items and non-food items.

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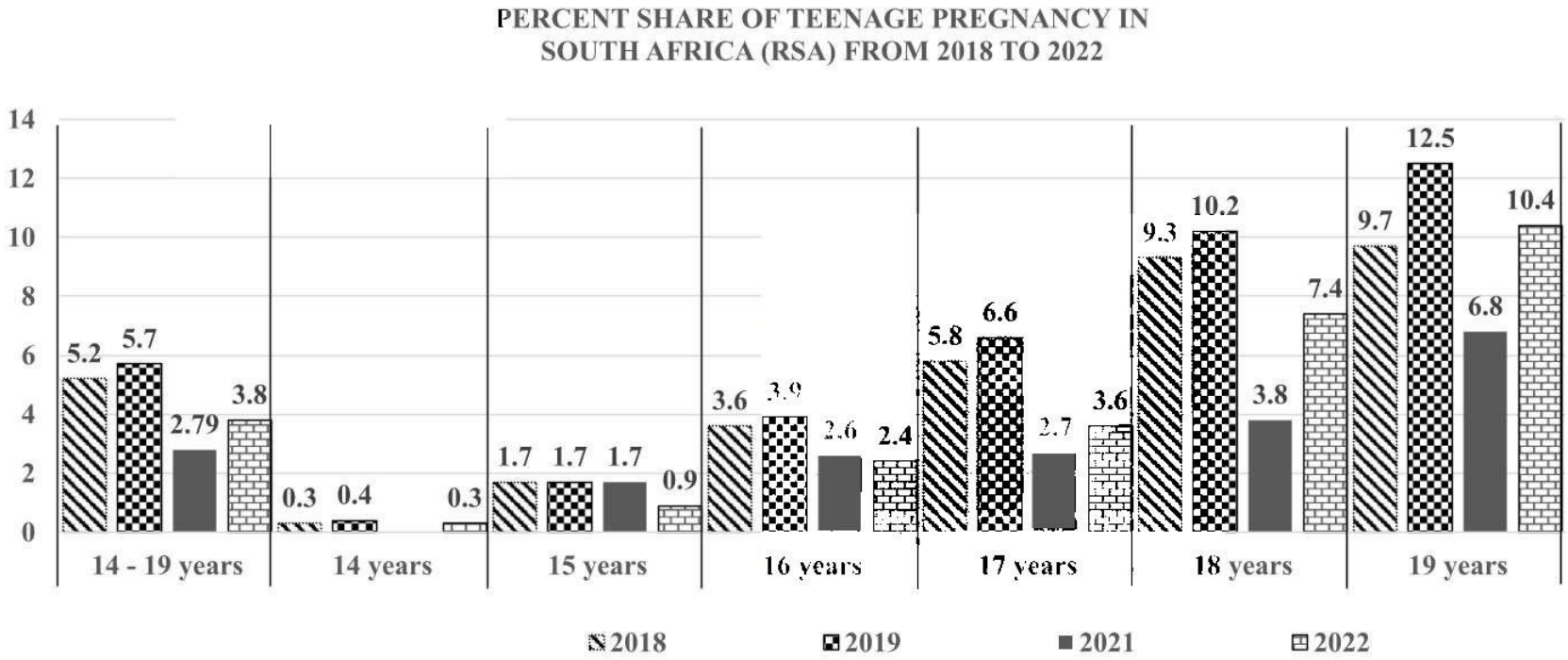
QUESTION 2

	Solution	Marks
2.1.1		(2)
2.1.2		(3)
2.1.3		(2)
2.1.4		(2)
2.1.5		(2)
2.1.6		(2)
2.1.7		(2)

	Solution	Marks
2.2.1 (a)		(2)
2.2.1 (b)		(2)
2.2.2		(7)
2.2.3		(2)
2.2.4		(2)
		[30]

QUESTION 3

3.1 ANNEXURE B



[Adapted from: www.statista.com.]

NOTE:

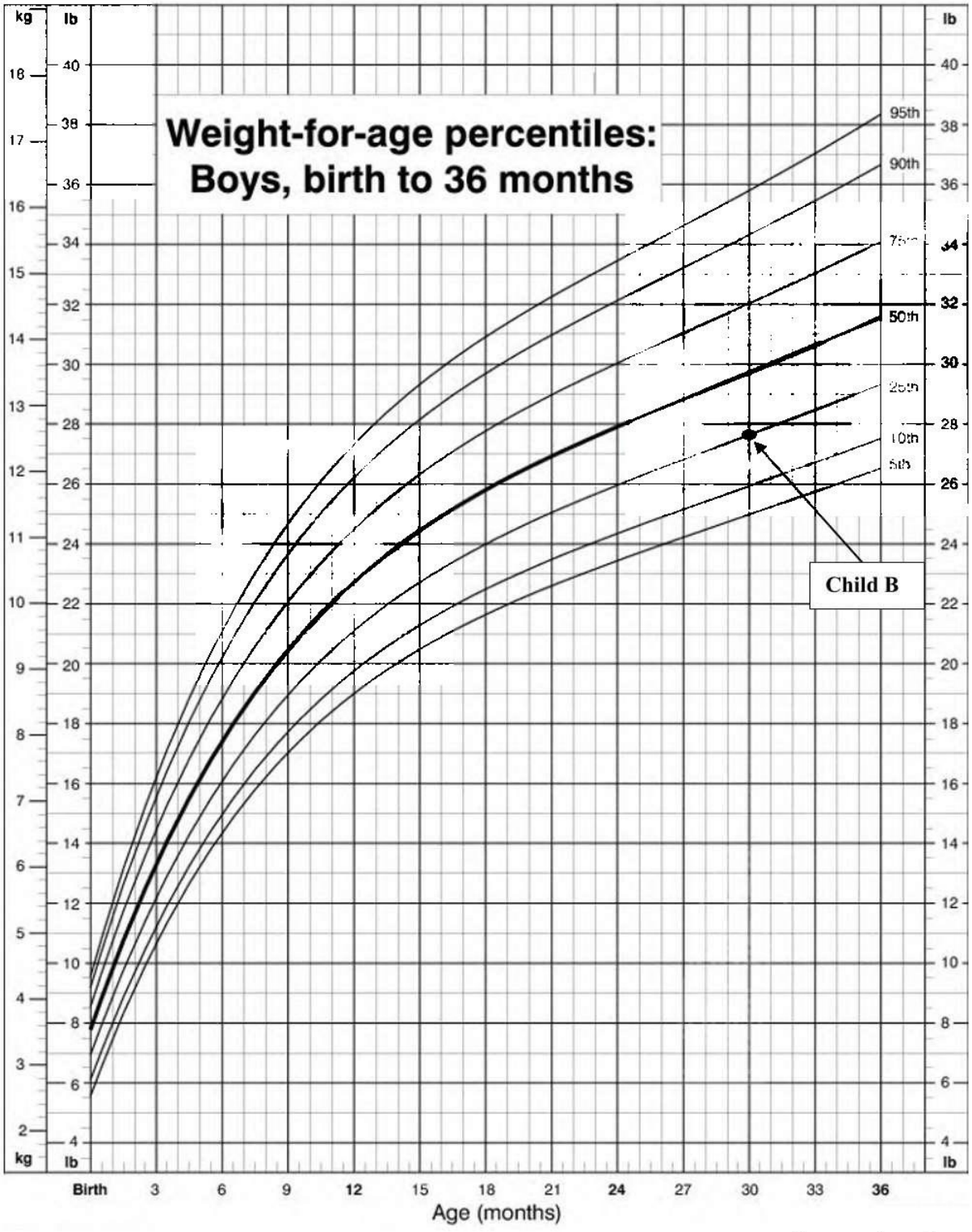
- Registrations of all births given by teenage mothers were done on the same day in 2020, and 15 had twins.
- In 2020, RSA recorded almost 35 000 (i.e. 0,11%)) teenage mothers, and 1 003 307 births were recorded that year.
- 10,366% of 2020 birth registrations were from 2019.
- In 2020 and 2022 RSA population estimates for females were 30 493 475 and 30 754 931, respectively, with a third being teenagers.

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	Solution	Marks
3.1.1		(2)
3.1.2		(2)
3.1.3		(2)
3.1.4		(2)
3.1.5 (a)		(2)
3.1.5 (b)		(2)
3.1.6		(4)

3.2 ANNEXURE C

GRAPH: WEIGHT FOR AGE PERCENTILE GRAPH FOR BOYS, BIRTH TO 36 MONTHS



[Source: cdc.gov]

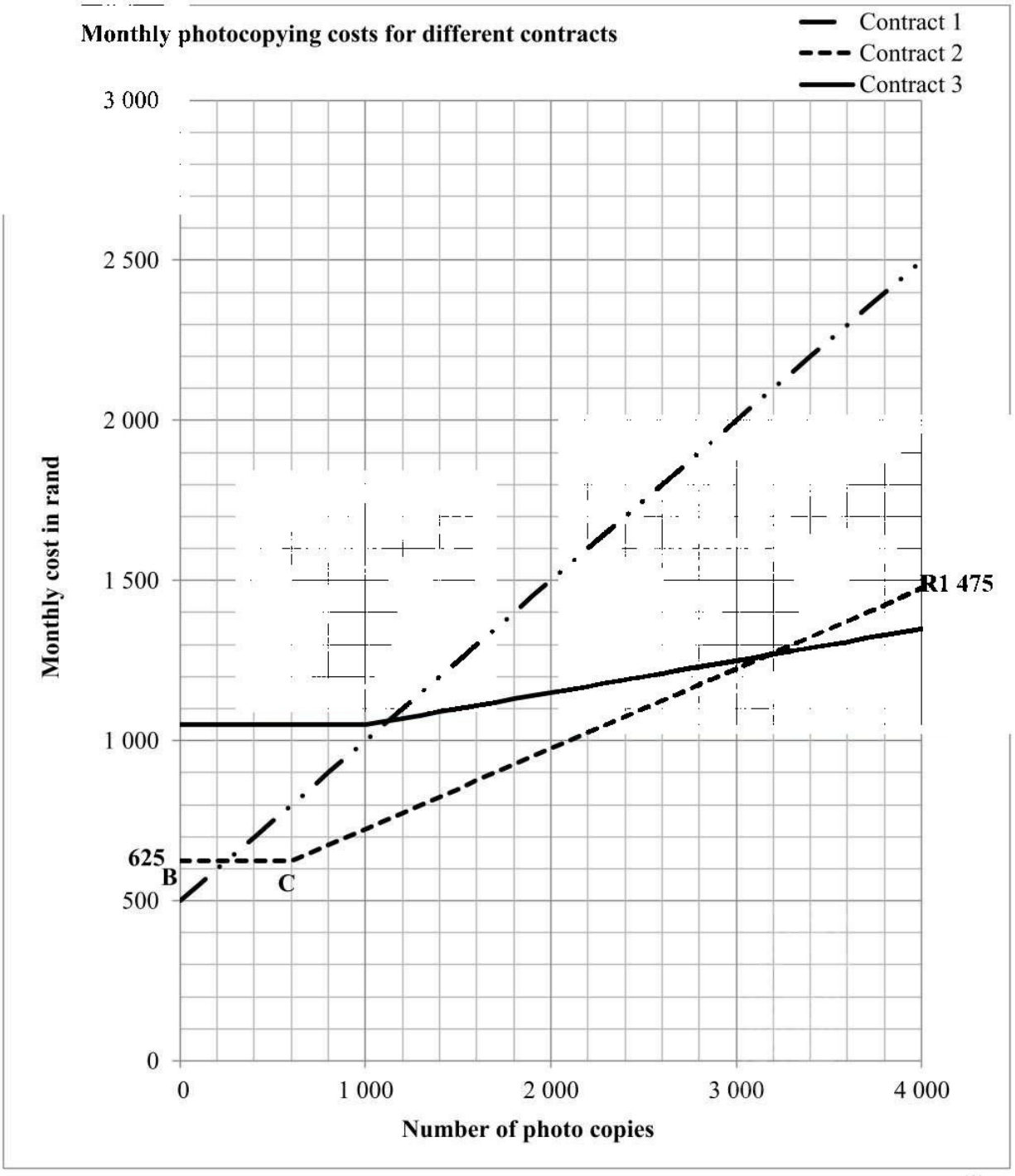
	Solution	Marks
3.2.1		(2)
3.2.2		(2)
3.2.3		(3)
3.2.4		(2)
3.2.5		(2)
3.2.6		(3)
		[30]

QUESTION 4

	Solution	Marks
4.1.1		(2)
4.1.2		(2)
4.1.3 (a)		(3)
4.1.3 (b)		(3)
4.1.4		(3)

	Solution	Marks
4.2.1		(2)
4.2.2		(2)
4.2.3		(2)
4.2.4		(5)

4.2.5


Monthly photocopying costs for different contracts
Contract 1
Contract 2
Contract 3
Monthly cost in rand
3 000
2 500
2 000
1 500
1 000
625
500
0
B
C
R1 475
0
1 000
2 000
3 000
4 000
Number of photo copies

(3)

	Solution	Marks
4.3		(9)
		[36]

QUESTION 5

5.1 ANNEXURE D

ELEVEN TOP EARNING PLAYERS IN THE DSTV LEAGUE AND WORLD SOCCER PLAYERS

DSTV LEAGUE TOP EARNING PLAYERS



RANK	MONTHLY SALARY in Rands (R) BEFORE TAXES		
	PLAYER	**TEAM playing**	**SALARY (Rand)**
1	Keagan Dolly	Kaizer Chiefs	1,45 million
2	Samir Nurkovic	TS Galaxy	0,93 million
3	Bongani Zungu	Mamelodi Sundowns	0,70 million
4	Andile Jali	Moroka Swallows	0,60 million
5	Deon Hotto	Orlando Pirates	0,50 million
6	Rowen Williams	Mamelodi Sundowns	0,50 million
7	Itumeleng Khune	Kaizer Chiefs	0,48 million
8	Denis Onyango	Mamelodi Sundowns	0,45 million
9	Marcelo Allende	Mamelodi Sundowns	0,43 million
10	Kennedy Mweene	Mamelodi Sundowns	0,42 million
11	Kermit Erasmus	Mamelodi Sundowns	0,40 million
	Total		**6,86 million**

[Source: https://sportplus]

THE WORLD'S HIGHEST PAID SOCCER PLAYERS



RANK	ANNUAL SALARY (ON-FIELD AND OFF-FIELD) BEFORE TAXES			
	PLAYER	**TEAM playing**	**ON-FIELD Salary in $**	**OFF-FIELD Salary in $**
1	Christiano Ronaldo	Al Nassr	200 million	60 million
2	Lionel Messi	Inter Milan	65 million	70 million
3	Neymar Junior (Jr)	Al Hilal	80 million	32 million
4	Kylian Mbappe	Paris Saint-German	90 million	20 million
5	Karim Benzema	Al Ittihad	100 million	6 million
6	Erling Haaland	Manchester City	46 million	12 million
7	Mohamed Salah	Liverpool	35 million	18 million
8	Sadio Mané	Al Nassr	48 million	4 million
9	Kevin de Bruyne	Manchester City	35 million	4 million
10	Harry Kane	Bayern Munich	26 million	10 million
11	Robert Lewandowski	FC Barcelona	24 million	10 million
	Total		**995 million**	

[Source: www.forbes.com]

NOTE:

- **$ 1** = £ 0,75899553
- **R1** = $ 0,05644617

OFF-FIELD salary = earnings received for activities other than playing match.

ON-FIELD salary = earnings received for playing official matches or competitions.

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QUESTION 5.1

	Solution	Marks
5.1.1		(2)
5.1.2		(2)
5.1.3		(6)
5.1.4		(3)

QUESTION 5.2

ANNEXURE E

TABLE 4: EXTRACT FROM A CONSOLIDATED LOCAL MUNICIPALITY BUDGET. ALL AMOUNTS IN ('000)

DESCRIPTION	2019/2020	2020/2021	Current year 2021/2022		2022/2023 Medium-term Income and Expenditure Framework Plan	
	Audited	Audited	Original Budget	Pre-Audit Outcome	Budget Year 2022/2023	Budget Year 2023/2024
INCOME						
Property rates	G	716 603	784 462	794 866	842 558	893 111
Service charges	2 073 501	2 227 636	2 694 542	2 694 542	2 878 830	3 116 589
Investment income	43 343	251 027	34 044	34 044	49 330	52 243
Transfer cost	448 122	519 604	440 652	518 241	489 491	530 153
Other income	293 743	312 290	211 525	211 526	212 797	221 307
Total income	**3 484 336**	**…**	**4 165 225**	**4 253 219**	**4 473 006**	**4 813 403**
EXPENDITURE						
Employee costs	824 585	889 355	961 335	961 335	1 040 938	1 101 367
Remuneration of councillors	37 100	134 657	42 350	42 350	43 033	45 615
Depreciation and asset impairment	453 359	81 980	487 299	487 299	507 298	569 317
Finance charges	67 196	71 180	69 501	69 501	65 474	58 263
Material and bulk purchases	1 592 462	1 780 120	1 967 839	1 982 214	2 118 107	2 311 745
Transfers and grants	218	240	128 362	128 362	140 526	153 542
Other expenditure	636 659	875 072	507 212	567 289	538 193	520 498
Total expenditure	**3 611 579**	**3 832 604**	**4 163 898**	**4 238 350**	**4 453 569**	**4 760 347**
Surplus (Deficit)	**(127 243)**	**H**	**1 327**	**14 870**	**19 436**	**53 055**

[Adapted from a municipal budget for 2022/2023]

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	Solution	Marks
5.2.1		(3)
5.2.2		(5)
5.2.3		(3)
		[24]

	Solution	Marks

TOTAL: 150

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RE-MARK/RE-CHECK				
Question	**Marks**			**Initials**
1				
2				
3				
4				
5				
TOTAL				
HASH TOTAL				

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