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**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

# JUNE EXAMINATION GRADE 12 2026

## MATHEMATICAL LITERACY (PAPER 1)

|                         |                              |   |   |   |   |   |   |                     |   |           |  |                |
|-------------------------|------------------------------|---|---|---|---|---|---|---------------------|---|-----------|--|----------------|
| <b>NAME OF SCHOOL</b>   |                              |   |   |   |   |   |   |                     |   |           |  |                |
| <b>CANDIDATE'S NAME</b> |                              |   |   |   |   |   |   |                     |   |           |  |                |
| <b>DATE</b>             | D                            | D | M | M | Y | Y | Y | <b>BOOK NUMBER</b>  |   | <b>OF</b> |  | <b>BOOK(S)</b> |
| <b>TEACHER</b>          |                              |   |   |   |   |   |   | <b>PAPER NUMBER</b> | 1 |           |  |                |
| <b>SUBJECT NAME</b>     | <b>MATHEMATICAL LITERACY</b> |   |   |   |   |   |   |                     |   |           |  |                |

**ANSWER ALL THE QUESTIONS IN THE QUESTION PAPER.**

| QUESTION | MARKER |  |  |                   | MODERATOR |  |  |                      |
|----------|--------|--|--|-------------------|-----------|--|--|----------------------|
|          | MARKS  |  |  | MARKER'S INITIALS | MARKS     |  |  | MODERATOR'S INITIALS |
| 1        | 0      |  |  |                   | 0         |  |  |                      |
| 2        | 0      |  |  |                   | 0         |  |  |                      |
| 3        | 0      |  |  |                   | 0         |  |  |                      |
| 4        | 0      |  |  |                   | 0         |  |  |                      |
|          |        |  |  | <b>TOTAL</b>      |           |  |  |                      |

**TIME: 2 hours****MARKS: 100****18 pages****SA EXAM PAPERS**

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## INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

1. This question paper consists of FOUR questions. Answer ALL questions in the spaces provided.
2. Use the ANNEXURES to answer the following questions:  
  
 ANNEXURE A for QUESTION 2.1  
 ANNEXURE B for QUESTION 4.1  
 ANNEXURE C for QUESTION 4.2.4
3. You may use an approved scientific calculator (non-programmable and non-graphical), unless stated otherwise.
4. Round-off ALL final answers appropriately according to the given context, unless stated otherwise.
5. Indicate units of measurement, where applicable.
6. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.  
Show ALL calculations, diagrams, graphs, etc. that you have used in determining your answers.
7. No pages may be torn from this question paper.
8. Candidates may not retain a question paper or remove it from the examination room. Question papers must be returned to the invigilator at the end of the examination session.
9. Show ALL calculations clearly.
10. Draw a neat line through any work/rough work that must NOT be marked.
11. In the event that you use the additional space provided:
  - 11.1 Write down the number of the question.
  - 11.2 Leave a line and rule off after your answer.
12. Write neatly and legibly.



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**QUESTION 1**

- 1.1 The men's FIFA Soccer World Cup 2026 will be held across three countries namely, the United States of America, Canada and Mexico. The FIFA World Cup will take place from 11 June to 19 July 2026.

TABLE 1 below shows the projected budget, in United States dollars (USD), for the 2026 FIFA Soccer World cup.

**TABLE 1: 2026 FIFA Soccer World Cup Projected Budget**

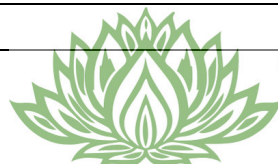
| PROJECTED REVENUE              |                         | PROJECTED EXPENDITURE                |                        |
|--------------------------------|-------------------------|--------------------------------------|------------------------|
| SOURCE                         | ESTIMATED REVENUE (USD) | CATEGORY                             | AMOUNT (USD)           |
| Broadcasting rights            | \$3,92 billion          | Prize money                          | \$896 million          |
| Marketing/Commercial rights    | \$1,78 billion          | FIFA Club Protection Programme (CPP) | \$355 million          |
| Ticket sales                   | A                       | Development & Education              | \$1,726 billion        |
| Hospitality & VIP packages     | \$0,7 billion           | Operational Costs                    | \$2,5 billion          |
| Licensing & Merchandising      | \$0,111 billion         | Broadcasting & Production Costs      | \$500 million          |
| Other revenue                  | \$0,072 billion         | Administration & Commercial          | \$379 million          |
| <b>Total Projected Revenue</b> | <b>\$8,883 billion</b>  | <b>Total Expenditure</b>             | <b>\$6,356 billion</b> |

[Adapted from <https://inside.fifa.com>]

|       |                                                |     |
|-------|------------------------------------------------|-----|
| 1.1.1 | Define the term <i>budget</i> in this context. | (2) |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |

|       |                                                                       |     |
|-------|-----------------------------------------------------------------------|-----|
| 1.1.2 | Calculate the estimated revenue amount expected from ticket sales, A. | (2) |
|       |                                                                       |     |
|       |                                                                       |     |
|       |                                                                       |     |

|       |                                                             |     |
|-------|-------------------------------------------------------------|-----|
| 1.1.3 | Identify the category with the least projected expenditure. | (2) |
|       |                                                             |     |
|       |                                                             |     |

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|       |                                                                    |     |
|-------|--------------------------------------------------------------------|-----|
| 1.1.4 | Write down the estimated revenue from broadcasting rights in full. | (2) |
|       |                                                                    |     |
|       |                                                                    |     |

|       |                                                                           |     |
|-------|---------------------------------------------------------------------------|-----|
| 1.1.5 | State whether the projected budget will result in a deficit or a surplus. | (2) |
|       |                                                                           |     |
|       |                                                                           |     |

|       |                                                                                                                                   |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| 1.1.6 | Calculate the difference between the projected expenditure on the prize money and the FIFA Club Protection Programme in millions. | (2) |
|       |                                                                                                                                   |     |
|       |                                                                                                                                   |     |
|       |                                                                                                                                   |     |

1.2

|                                                                                                                                                                               |        |        |        |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|
| The 2026 FIFA World Cup will be hosted at 16 stadiums across the three host nations. The seating capacities of the 16 stadiums rounded-off to the nearest 100 are as follows: |        |        |        |        |        |
| 93 000                                                                                                                                                                        | 87 500 | 87 200 | 76 600 | 75 000 | 72 100 |
| 72 100                                                                                                                                                                        | 72 100 | 70 000 | 69 300 | 69 000 | 67 500 |
| 54 500                                                                                                                                                                        | 53 500 | 48 100 | 45 500 |        |        |

Use the information above to answer the following questions.

|       |                                                                                                     |     |
|-------|-----------------------------------------------------------------------------------------------------|-----|
| 1.2.1 | State whether the seating capacities of the stadiums are arranged in descending or ascending order. | (2) |
|       |                                                                                                     |     |
|       |                                                                                                     |     |

|       |                                                          |     |
|-------|----------------------------------------------------------|-----|
| 1.2.2 | Write down the mode of the stadiums' seating capacities. | (2) |
|       |                                                          |     |
|       |                                                          |     |

|       |                                                                |     |
|-------|----------------------------------------------------------------|-----|
| 1.2.3 | Calculate the range of the seating capacities of the stadiums. | (2) |
|       |                                                                |     |
|       |                                                                |     |
|       |                                                                |     |

|       |                                                                                                                                                        |     |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1.2.4 | 12,5% of the stadiums hosting the 2026 FIFA World Cup are in Canada. Calculate the actual number of stadiums in Canada that will host this tournament. | (2) |
|       |                                                                                                                                                        |     |
|       |                                                                                                                                                        |     |
|       |                                                                                                                                                        |     |





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**MATHEMATICAL LITERACY**  
**(PAPER 1)**

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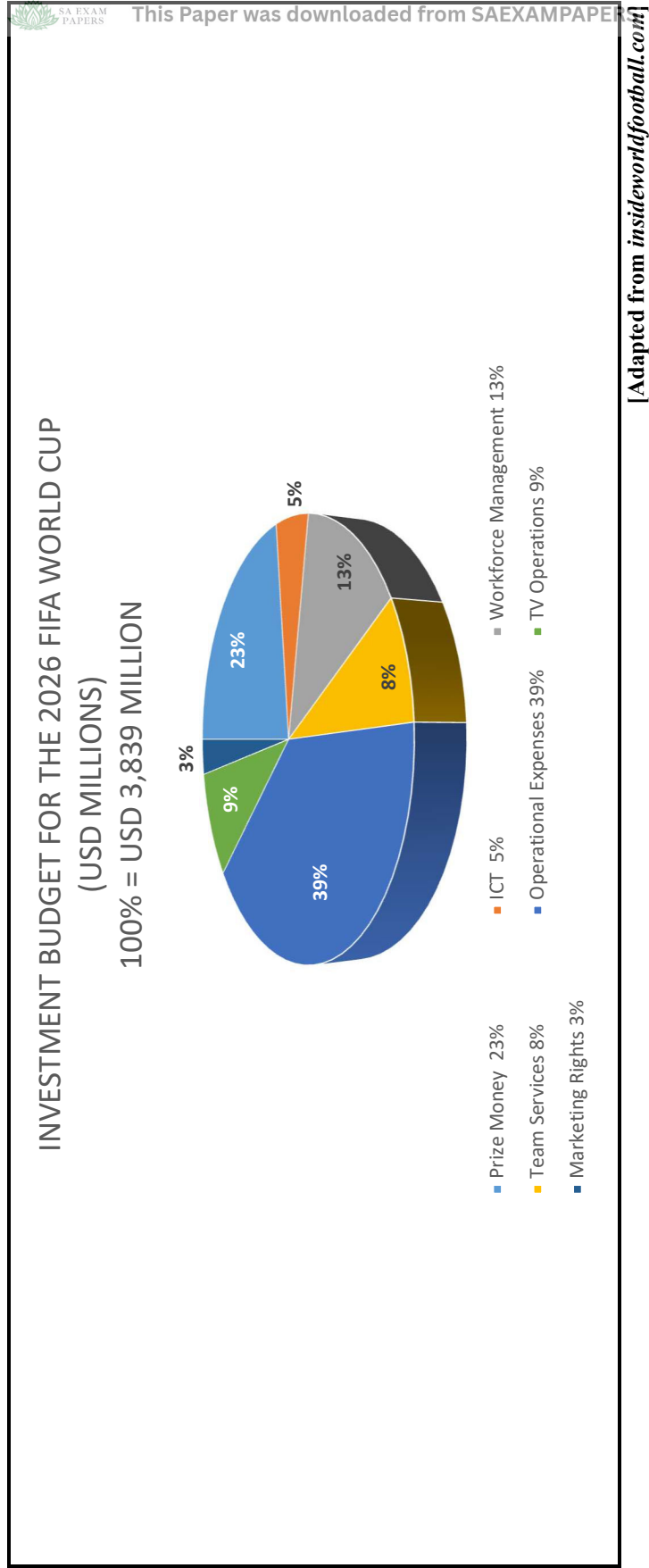
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**ANNEXURE A**  
**QUESTION 2.1**



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**QUESTION 2**

2.1

The 2026 FIFA World Cup will be jointly hosted by the United States of America, Canada, and Mexico. Hosting such a large international event requires careful planning and significant investment in infrastructure, stadium upgrades, security, and tourism development. Governments and private investors have set aside large budgets to ensure that the tournament is successful. ANNEXURE A shows a graph of the projected investment budget for the 2026 FIFA World Cup.

Use ANNEXURE A to answer the questions that follow.

|       |                                                                         |     |
|-------|-------------------------------------------------------------------------|-----|
| 2.1.1 | Write down the total investment budget for the 2026 World Cup in words. | (2) |
|       |                                                                         |     |
|       |                                                                         |     |
| 2.1.2 | Identify the item that received the largest budget allocation.          | (2) |
|       |                                                                         |     |
|       |                                                                         |     |
| 2.1.3 | Calculate the amount allocated to TV Operations.                        | (2) |
|       |                                                                         |     |
|       |                                                                         |     |

- 2.2 The FIFA World Cup is the most popular international soccer tournament in the world. Each tournament awards prize money to the participating teams, with the total amount increasing from one World Cup to the next. The table below shows the total prize money (in US dollars) for the World Cups from 2014 to 2026. Use this information to answer the questions that follow.

|                                                                                                 |                                                                                                 |                                                                                                |                                                                                                       |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                |                |              |                    |
| <b>2014</b>                                                                                     | <b>2018</b>                                                                                     | <b>2022</b>                                                                                    | <b>2026</b>                                                                                           |
|  <b>BRAZIL</b> |  <b>RUSSIA</b> |  <b>QATAR</b> |  <b>US/MEX/CAN</b> |
| <b>Prize Money = \$35M</b>                                                                      | <b>Prize Money = \$38M</b>                                                                      | <b>Prize Money = \$42M</b>                                                                     | <b>Prize Money = \$45M</b>                                                                            |
|               |               |             |                   |

[Source: *Goal.com*]

|       |                                                                                                                                                         |     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 2.2.1 | Calculate the percentage increase in prize money from 2018 to 2026. Round off your answer to the nearest percentage. You may use the following formula: |     |
|       | $\text{Percentage Increase} = \frac{2026 \text{ Amount} - 2018 \text{ Amount}}{2018 \text{ Amount}} \times 100$                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         | (3) |
| 2.2.2 | Convert the 2018 World Cup prize money from US dollar to South African rand. Use the exchange rate of 1 USD = 17,79 ZAR.                                |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         |     |
|       |                                                                                                                                                         | (3) |

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2.3 Mrs Dlamini, aged 67, earns a monthly income of R65 000. She makes the following contributions from her income:

- Medical aid for herself, her husband, and her two children
- 7,5% of her basic income to a pension fund
- Donations to the Gift of the Givers Foundation, amounting to R15 000 per year

Use this information and the tax table in TABLE 2 below to answer the questions that follow.

**TABLE 2: 2025/2026 TAX YEAR (1 March 2025 – 28 February 2026)**

|          | ANNUAL TAXABLE INCOME (R) | RATES OF TAX (R)                                |
|----------|---------------------------|-------------------------------------------------|
| <b>A</b> | 1 – 237 100               | 18% of taxable income                           |
| <b>B</b> | 237 101 – 370 500         | 42 678 + 26% of taxable income above 237 100    |
| <b>C</b> | 370 501 – 512 800         | 77 362 + 31% of taxable income above 370 500    |
| <b>D</b> | 512 801 – 673 000         | 121 475 + 36% of taxable income above 512 800   |
| <b>E</b> | 673 001 – 857 900         | 179 147 + 39% of taxable income above 673 000   |
| <b>F</b> | 857 901 – 1 817 000       | 251 258 + 41% of taxable income above 857 900   |
| <b>G</b> | 1 817 001 and above       | 644 489 + 45% of taxable income above 1 817 000 |

| TAX REBATE                          | TAX YEAR  |
|-------------------------------------|-----------|
|                                     | 2025/2026 |
| Primary                             | R 17 235  |
| Secondary (65 years and older)      | R 9 444   |
| Tertiary (75 years and older)       | R 3 145   |
| Medical monthly tax credit          |           |
| For the tax payer and one dependant | R 728     |
| For each additional dependant       | R 246     |

[Adapted from [www.sars.gov.za](http://www.sars.gov.za)]

|       |                                                                                     |     |
|-------|-------------------------------------------------------------------------------------|-----|
| 2.3.1 | Explain what the tax threshold for people 65 years and younger means to a taxpayer. |     |
|       |                                                                                     |     |
|       |                                                                                     |     |
|       |                                                                                     |     |
|       |                                                                                     | (2) |



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|       |                                                |     |
|-------|------------------------------------------------|-----|
| 2.3.2 | Calculate Mrs Dlamini's Annual Taxable Income. | (5) |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |
|       |                                                |     |

|       |                                                         |     |
|-------|---------------------------------------------------------|-----|
| 2.3.3 | Determine Mrs Dlamini's annual medical aid tax credits. | (3) |
|       |                                                         |     |
|       |                                                         |     |
|       |                                                         |     |

|       |                                                                                          |     |
|-------|------------------------------------------------------------------------------------------|-----|
| 2.3.4 | Calculate Mrs Dlamini's monthly tax payable to the South African Revenue Service (SARS). | (7) |
|       |                                                                                          |     |
|       |                                                                                          |     |
|       |                                                                                          |     |
|       |                                                                                          |     |
|       |                                                                                          |     |
|       |                                                                                          |     |
|       |                                                                                          |     |
|       |                                                                                          |     |
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|       |                                                                                          |     |
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|       |                                                                                          |     |
|       |                                                                                          |     |

**[29]**

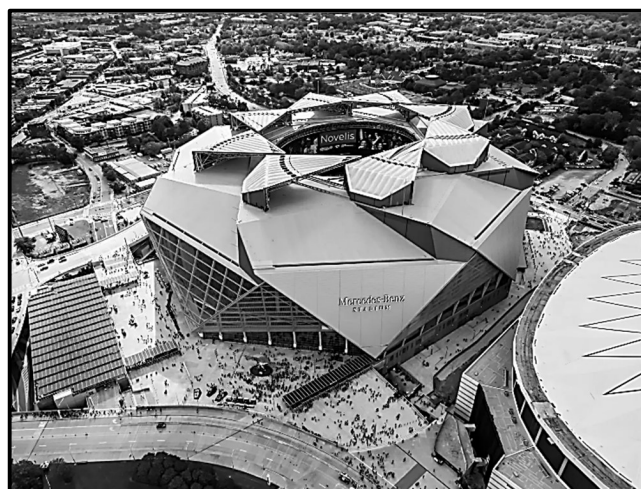
**QUESTION 3**

The 2026 FIFA Soccer World Cup will be hosted across various stadiums in the United States of America and Mexico. The tournament will feature various venues with different seating capacities, reflecting the large-scale nature of the event. The table below shows a selection of stadiums, the countries in which they are located, and their respective seating capacities.

**TABLE 3: STADIUMS, COUNTRIES AND SEATING CAPACITIES FOR THE 2026 FIFA WORLD CUP**

| STADIUM NAME            | COUNTRY | SEATING CAPACITY |
|-------------------------|---------|------------------|
| Estadio Azteca          | Mexico  | 87 523           |
| MetLife Stadium         | USA     | 82 500           |
| AT&T Stadium            | USA     | 80 000           |
| Arrowhead Stadium       | USA     | 76 416           |
| NRG Stadium             | USA     | 72 220           |
| Mercedes-Benz Stadium   | USA     | 71 000           |
| SoFi Stadium            | USA     | 70 240           |
| Lincoln Financial Field | USA     | 69 176           |
| Lumen Field             | USA     | 69 000           |
| Levi's Stadium          | USA     | 68 500           |

[Adapted from *FoxSoccer.com*]



Mercedes-Benz Stadium, Atlanta, USA.

[Source: *parametric-architecture.com*]

Study the information in TABLE 3 above and answer the questions that follow.

|     |                                                                     |     |
|-----|---------------------------------------------------------------------|-----|
| 3.1 | Identify the stadium which has the fourth highest seating capacity. | (2) |
|     |                                                                     |     |
|     |                                                                     |     |



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|     |                                                                                                                          |     |
|-----|--------------------------------------------------------------------------------------------------------------------------|-----|
| 3.2 | Is the data represented in the seating capacity column continuous or discrete?<br>Explain your answer.                   | (4) |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
| 3.3 | Determine the interquartile range of the stadiums' seating capacities.                                                   | (6) |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
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|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     | 3.4                                                                                                                      |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
| 3.5 | Determine the probability as a decimal fraction, of selecting a stadium that has a seating capacity of less than 75 000. | (3) |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |
|     |                                                                                                                          |     |



**QUESTION 4**

- 4.1 Tshepo is buying his first house and has been advised to use FNB's online bond calculator to get an idea of how much it will cost him to take out a mortgage loan to finance the purchase. ANNEXURE B is a screen grab of the loan details and results of Tshepo's search output from the online calculator.

Use ANNEXURE B to answer the questions that follow.

**ANNEXURE B****LOAN DETAILS**

Total Loan Amount

R900 000

Interest rate %

10,75%

Loan term in months

240 months

**Online bond calculator****Your Results****Minimum Gross Monthly Income:****Y****What you pay initially****Transfer Fee:**

R29 618,00

**Bond Cost:**

R24 874,50

Initiation Fee:

R6 037,50

Transfer Duty:

R0,00

**Total:**

R60 530,00

**What you pay monthly**

Repayments:

R9 137,06

Service Fees:

R69,00

**Total:**

R9 206,06





|       |                                                                                                                                                                                                                                                                                                                                                                         |     |     |     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|
| 4.1.1 | Write down the term of the loan in years.<br><br><br>                                                                                                                                                                                                                                                                                                                   | (2) |     |     |
| 4.1.2 | Calculate the initiation fee as a percentage of the total initial amount.<br><br><br><br><br><br><br>                                                                                                                                                                                                                                                                   |     | (3) |     |
| 4.1.3 | As a general guideline, the total monthly repayment towards a mortgage loan must not exceed 30% of an applicant's gross monthly income.<br><br>Determine the value of <b>Y</b> , the minimum gross monthly income that Tshepo needs to earn in order to qualify for the loan.<br><br><br><br><br><br><br><br>                                                           |     |     | (3) |
| 4.1.4 | Tshepo had invested R47 000 into a fixed deposit account at a compound interest rate of 9,5% p.a. to save towards the total initial payment. He invested the money for 3 years.<br><br>Use calculations to determine whether the invested amount will be enough to cover the total initial costs after 3 years.<br><br><br><br><br><br><br><br><br><br><br><br><br><br> | (7) |     |     |



4.2

Tshepo is comparing prices to buy a new cellular phone. He finds the following advertisement of a Samsung Galaxy S25 Ultra in brochures of two different telecommunications service providers.



|                           | Service Providers                                               |                                    |
|---------------------------|-----------------------------------------------------------------|------------------------------------|
|                           | Afri Cell (36 months contract)                                  | One World (36 months contract)     |
| <b>Monthly instalment</b> | R1 200                                                          | R1 050                             |
| <b>Cost of calls</b>      | 100 free minutes thereafter<br>R3,00 per minute or part thereof | R2,00 per minute billed per second |
| <b>Data</b>               | 6 GB free                                                       | 3 GB free                          |

|       |                                                                                                                        |     |
|-------|------------------------------------------------------------------------------------------------------------------------|-----|
| 4.2.1 | Calculate the total cost of the Samsung Galaxy S25 Ultra cellular phone for the duration of the contract at One World. | (2) |
|       |                                                                                                                        |     |
|       |                                                                                                                        |     |

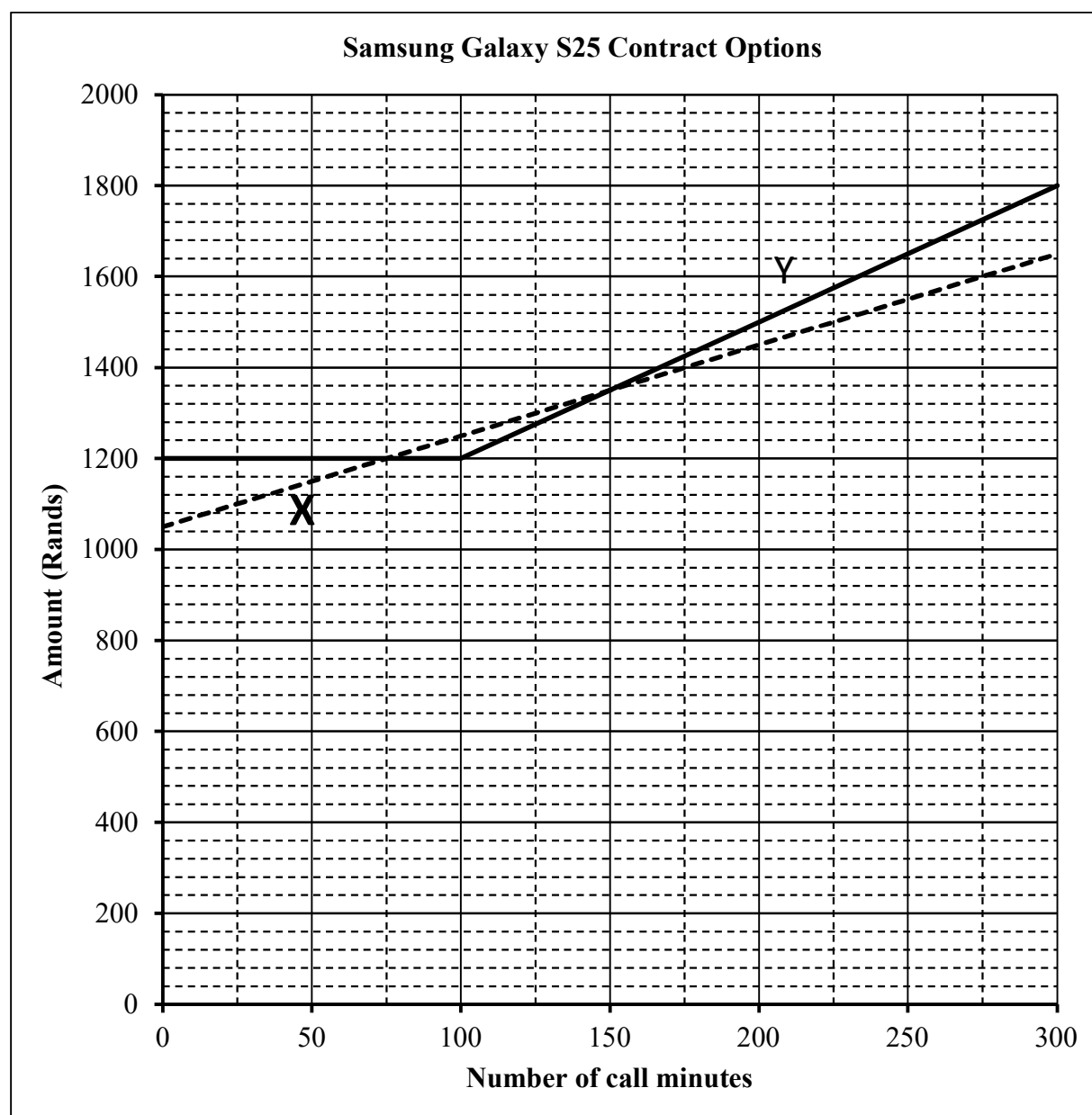
|       |                                                                                                                                                                                                                                                                                                                                   |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 4.2.2 | Choose which formula may be used to calculate the total amount payable at the end of the month for One World, assuming that the Tshepo does not use the network data.                                                                                                                                                             | (2) |
|       | Write down only the letter corresponding to the answer of your choice.                                                                                                                                                                                                                                                            |     |
|       | <p>A Total amount = <math>R1\ 050 \times \text{Number of call minutes}</math></p> <p>B Total amount = <math>R2,00 \times \text{Number of call minutes}</math></p> <p>C Total amount = <math>R1\ 050 + (\text{Number of call minutes} \times R2,00)</math></p> <p>D Total amount = <math>36 \times R1\ 050 \times R2,00</math></p> |     |





|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 4.2.3                                                                                                                                                                                                                                                     | If Tshepo makes calls lasting a total of 75 minutes and 25 seconds, calculate which service provider will be the cheapest. |     | (6) |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
| 4.2.4                                                                                                                                                                                                                                                     |                                                                                                                            |     |     |
| The graphs of Afri Cell and One World for the Samsung Galaxy S25 Ultra are drawn on ANNEXURE C.                                                                                                                                                           |                                                                                                                            | (2) |     |
| Use the information above and ANNEXURE C to answer questions that follow.                                                                                                                                                                                 |                                                                                                                            |     |     |
| (a)                                                                                                                                                                                                                                                       |                                                                                                                            |     |     |
| Match each service provider to the graphs indicated as <b>X</b> and <b>Y</b> .                                                                                                                                                                            |                                                                                                                            | (2) |     |
| <b>X</b> –                                                                                                                                                                                                                                                |                                                                                                                            |     |     |
| <b>Y</b> –                                                                                                                                                                                                                                                |                                                                                                                            |     |     |
| (b)                                                                                                                                                                                                                                                       |                                                                                                                            |     |     |
| Tshepo states that the difference between the monthly costs for Afri Cell and One World for making 275 minutes of calls is more than R100. Use the graphs in ANNEXURE C to write down the cost to determine each option and to verify Tshepo’s statement. |                                                                                                                            | (4) |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
|                                                                                                                                                                                                                                                           |                                                                                                                            |     |     |
| [31]                                                                                                                                                                                                                                                      |                                                                                                                            |     |     |

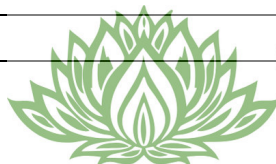


**ANNEXURE C****QUESTION 4.2.4****SA EXAM PAPERS**

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**JUNE EXAMINATION**  
**GRADE 12**  
**2026**