



HILLCREST HIGH SCHOOL
Mathematical Literacy
Examination
Gr 10 Paper 1
JUNE 2022

Examiner: Mrs. Leuschke

Moderator: Mrs. Jugmohan

MARKS: 50

TIME: 1 hour

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| <u>NAME :</u> | | | | |
| <u>TEACHER:</u> | | | | |
| <u>Q1</u> | <u>Q2</u> | <u>Q3</u> | <u>Q4</u> | <u>TOTAL</u> |
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INSTRUCTIONS AND INFORMATION:

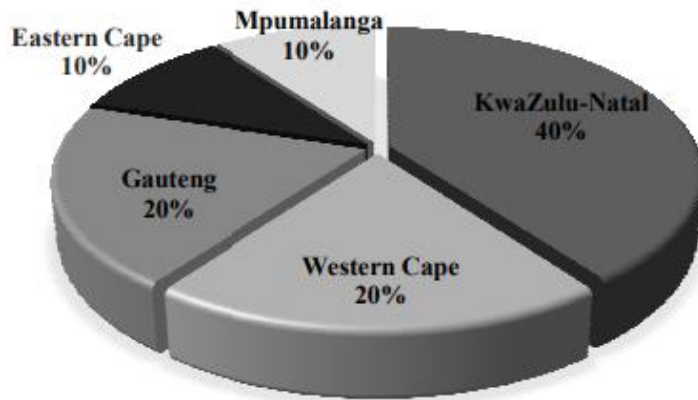
Read the following instructions carefully before answering the questions.

1. This question paper consists of 4 questions and 6 pages.
2. Clearly show ALL calculations, diagrams, graphs, etc which you have used to determine your answers.
3. Answers only will NOT necessarily be awarded full marks.
4. An approved scientific calculator (non-programmable) may be used, unless otherwise stated.
5. If necessary, answers should be rounded off to TWO decimal places, unless otherwise stated, or appropriately within the given context.
6. Number the answers EXACTLY as the questions are numbered.
7. Diagrams are not necessarily drawn to scale.
8. It is in your own interest to write legibly and to present your work neatly.

Question 1

The pie chart below indicates the percentage of people who visited the Kruger National Park from five different South African Provinces. In 2019 an estimated 1 659 793 people visited the Kruger National Park from these five different provinces.

VISITORS TO KRUGER NATIONAL PARK IN 2019 FROM FIVE PROVINCES



1.1 Write the total number of visitors to the Kruger National Park for 2019 in words. (2)

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1.2 Identify the province with the highest number of visitors to the Kruger National Park in 2019. (2)

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1.3 Which two provinces have fewer than 15% of the visitors? (2)

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1.4 Calculate the total number of visitors from KwaZulu-Natal to the Kruger National Park in 2019. Give your answer rounded to the nearest thousand. (3)

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1.5 Write as a ratio, the percentage of visitors from the Western Cape to the percentage of visitors from the Eastern Cape, in the simplest form. (2)

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Question 2

Miriam has recently opened an International account at Capital Bank. She is concerned about her monthly bank charges. Use the table below which shows a list of her transactions for the month of April to answer the questions.

| Date | Activities | Amounts |
|-------------|---|-----------|
| 1 Apr 2021 | Balance of previous month carried forward | R 210,25 |
| 1 Apr 2021 | Old Mutual Policy x74534: Debit order returned: insufficient funds* | R 254,39 |
| 1 Apr 2021 | Balance enquiry (mobile) | R 0,00 |
| 2 Apr 2021 | Davidsons Textiles: Salary deposit* | R 5400,00 |
| 2 Apr 2021 | Shoprite: Purchases: Debit card* | R 847,21 |
| 2 Apr 2021 | Shoprite: Cash withdrawal*. | R 250,00 |
| 7 Apr 2021 | Old Mutual Policy x74534: Branch Payment | R 254,39 |
| 15 Apr 2021 | Edgars: Purchases: Debit card* | R 149,59 |
| 20 Apr 2021 | Capital Bank ATM Withdrawal* | R 200,00 |
| 23 Apr 2021 | Shoprite: municipal account payment* | R 639,00 |
| 28 Apr 2021 | FNB ATM Withdrawal* | R 500,00 |
| 29 Apr 2021 | Balance statement at the branch | R 3,00 |
| 30 Apr 2021 | Monthly Administration Fee | R 4,50 |

*Denotes SMS notification for April

2.1 How many withdrawals did Miriam make during this month? (2)

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2.2 On what date was Miriam's salary deposited? (2)

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2.3 Calculate the total amount of money that was spent on shop purchases. Give your answer rounded to the nearest whole rand. (3)

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2.4 Miriam says that she has to pay over R10 for bank fees for the month of April. Verify, showing all calculations, whether or not she is correct. (4)

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2.5 Miriam's boss decides to give her a 4,5% increase in her salary. Calculate what her new salary will be. Give your answer rounded off to the nearest whole rand. (3)

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Question 3

Below are the marks (as a percentage) of 12 learners who wrote a Maths Literacy exam.

60 65 60 54 65 72 45 66 67 60 56 73

3.1 Arrange the data in ascending order. (2)

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3.2 The teacher stated that the range is 28. Verify, showing all calculations, whether or not she was correct. (4)

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3.3 Determine the median of the data. (3)

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3.4 What percentage of people scored below the median. (2)

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3.5 Anele's average for Maths was 72% after she had written 4 tests. She gets 85% for her fifth test. Calculate what her new average will be after the fifth test. (4)

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Question 4

During lunch Ms. Stow visited the nearest shop to buy a 1,5 litre of Halls concentrated juice. The dilution factor on the label reads 1 : 4.

4.1 Explain the meaning of the dilution of 1 : 4.

(2)

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4.2 Ms Stow wants to mix the juice with water using the 15 litre container. Calculate how many litres of concentrate and how many litres of water she will need.

(4)

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4.3 Sophie, one of the learners in her class, said that the juice will taste sweeter if they mix $2\frac{1}{2}$ cups of Halls concentrate to 10 cups of water. Verify, showing all calculations, whether or not her statement is correct.

(4)

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