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education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 10

MATHEMATICAL LITERACY P1
NOVEMBER 2024

MARKS: 75

TIME: 1½hours

This question paper consistsof 7 pagesand 1 annexure.

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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 the questions.
2. Use ANNEXURE A to answer QUESTION 2.1.
3. Number the answers correctly according to the numbering system used in this question paper.
4. Start EACH question on a NEW page.
5. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
6. Show ALL calculations clearly.
7. Round off ALL final answers appropriately according to the given context, unless stated otherwise.
8. Indicate units of measurement, where applicable.
9. Diagrams are NOT necessarily drawn to scale, unless stated otherwise.
10. Write neatly and legibly.

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QUESTION 1

Jessica and her family are planning to go on holiday to a nearby holiday resort during the December holiday. The table below shows their budget presented to her dad.

JESSICA'SFAMILY BUDGET FOR DECEMBER 2024

INCOME		EXPENDITURE	
Items	**Amount in Rand**	**Items**	**Amount in Rand**
Dad income	28 000	Municipality account	3 600
Mom income (½day = 4 hours per day)	5 500	Cell phone usage	850
		Insurance	2 700
Savings pay-out	24 000	Rent payment	5 500
		Car payment	4 700
		Christmas gifts	4 000
TOTAL INCOME	**57 500**	**TOTAL EXPENDITURE**	**21 350**

Use the above document to answer the questions that follow.

1.1 Define the term *budget*. (2)

1.2 Write down the amount of the total expenditure in words (without numerals). (2)

1.3 Name one item that is an occasional expenditure. (2)

1.4 Determine the mom's monthly salary if she works for 8 hours per day. (2)

1.5 Write down the name of the most expensive expenditure. (2)

1.6 Determine the minimum value (in rand) in the expenditure column. (2)

1.7 During the planning phase of the holiday, the family came across a document with questions which they had to complete. In this document a travel agency wanted to determine certain likes and dislikes of clients when traveling.

Name the type of data collecting instrument described above. (2)

[14]

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QUESTION 2

2.1 Jessica's dad, Bernard, showed his bank statement for October 2024 to her (ANNEXURE A).

ANNEXURE A also show an extract of his bank's bank charges structure.

All bank charges will be debited at the end of the month.

Use the information above and ANNEXTURE A to answer the questions that follow.

2.1.1 Write down the branch number as indicated on the statement. (2)

2.1.2 Calculate the balance on the 2nd of October 2024. (4)

2.1.3 Calculate the total amount spent by paying with the debit card for October 2024. (3)

2.1.4 Calculate the bank charges as a percentage of the salary. (3)

2.1.5 By using the debit entries only, calculate the probability to randomly select a debit amount less than R2 500.

Give your answer as a decimal number. (3)

2.1.6 Bernard claims that his bank charge on the cash withdrawal will be less than R20,00.

Verify, showing ALL calculations, if his statement is VALID. (4)

2.2 Jessica is planning to save R2 000 for 18 months at a simple interest rate of 7,5% per year interest.

Calculate the amount that she will receive at the end of the 18 months period. (4)

2.3 The price of fishing gear is R2 400 VAT exclusive. It is expected that the fishing gear will increase by 10% this coming December. John wishes to buy the fishing gear in December after receiving his saving's pay-out of R3 000. He claims that he will have enough money to buy this fishing gear with his savings amount.

Verify, showing ALL calculations, weather his claim is VALID or NOT. (4)
[27]

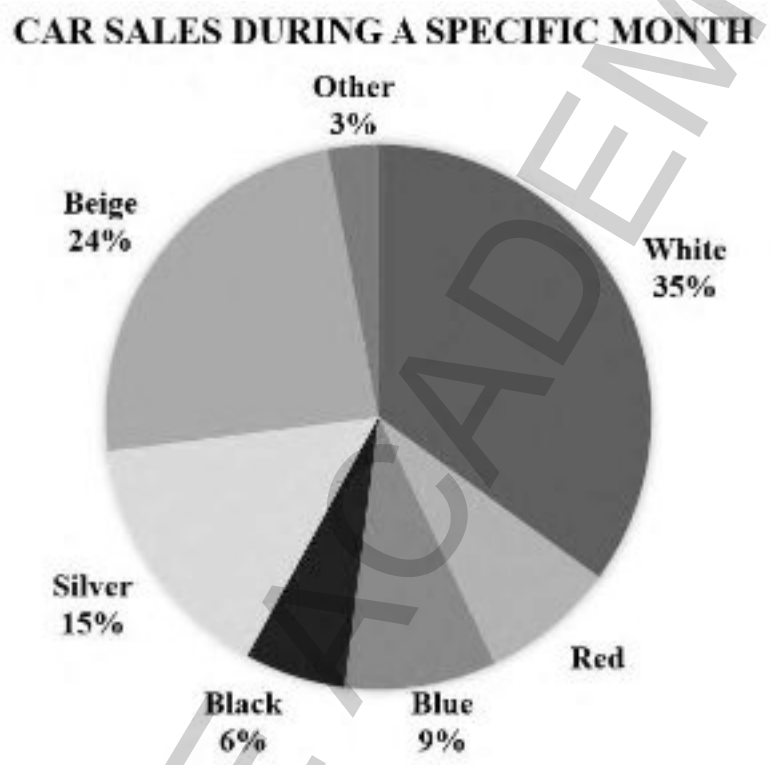
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QUESTION 3

3.1 Mr. Bernard planned to buy a new car. He is uncertain about the colour and the model of the car. He decided to do some research before he makes a decision.

He came across the following chart that showed the different colour cars sold in the previous month.



Use the information above to answer the questions that follow.

3.1.1 Name the type of chart shown above. (2)

3.1.2 State weather the above data is categorical or numerical. (2)

3.1.3 Calculate the percentage of red cars. (3)

3.1.4 During this specific month, 350 cars were sold.

Calculate the number of beige cars sold. (2)

3.1.5 Mr. Bernard claims that a white car doesn't attract dirt easily.

Give another valid reason why a white car might be a better option to buy. (2)

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3.2 Mr. Bernard came across the different lengths of cars in South Africa.

The different lengths, in metres, are as follow:

4,1	4,3	5,8	4,1	2,9	5,1
3,6	2,5	4,7	4,4	4,2	5,0

Use the information given above to answer the questions that follow.

3.2.1 Calculate the mean length of the given data in the set. (3)

3.2.2 Calculate the median of the data. (4)

[18]

QUESTION 4

Mr. Bernard compared the water tariffs of his own town to that of Matlosana. He got the following water tariffs for Matlosana for the 2023/2024 book year.

TABLE 1: WATER TARIFF FOR MATLOSANA FOR 2023/2024

CONSUMPTION	TARIFF IN RANDS (VAT INCLUDED)
0 kl – 6 kl	R27,80
6 kl – 20 kl	R34,06
20 kl – 50 kl	R35,14
50 kl – 100 kl	R36,34
100 kl – 200 kl	R38,34
200 kl – 300 kl	R40,62
300 kl +	R51,16

Adapted from: https://www.matlosana.gov.za

Use the information above to answer the questions that follow.

4.1.1 The amounts in Table 1 above included VAT.

What is the current VAT % in South Africa? (2)

4.1.2 The tariffs increased from 2022/2023 to 2023/2024 with 6%.

Calculate the previous tariff for the 0 kl – 6 kl category in 2022/2023. (3)

4.1.3 Mr. Bernard claims that 18 kl of water will cost more than R550 for 2023/2024.

Verify, by calculating the cost of 18 kl, if his statement is CORRECT. (5)

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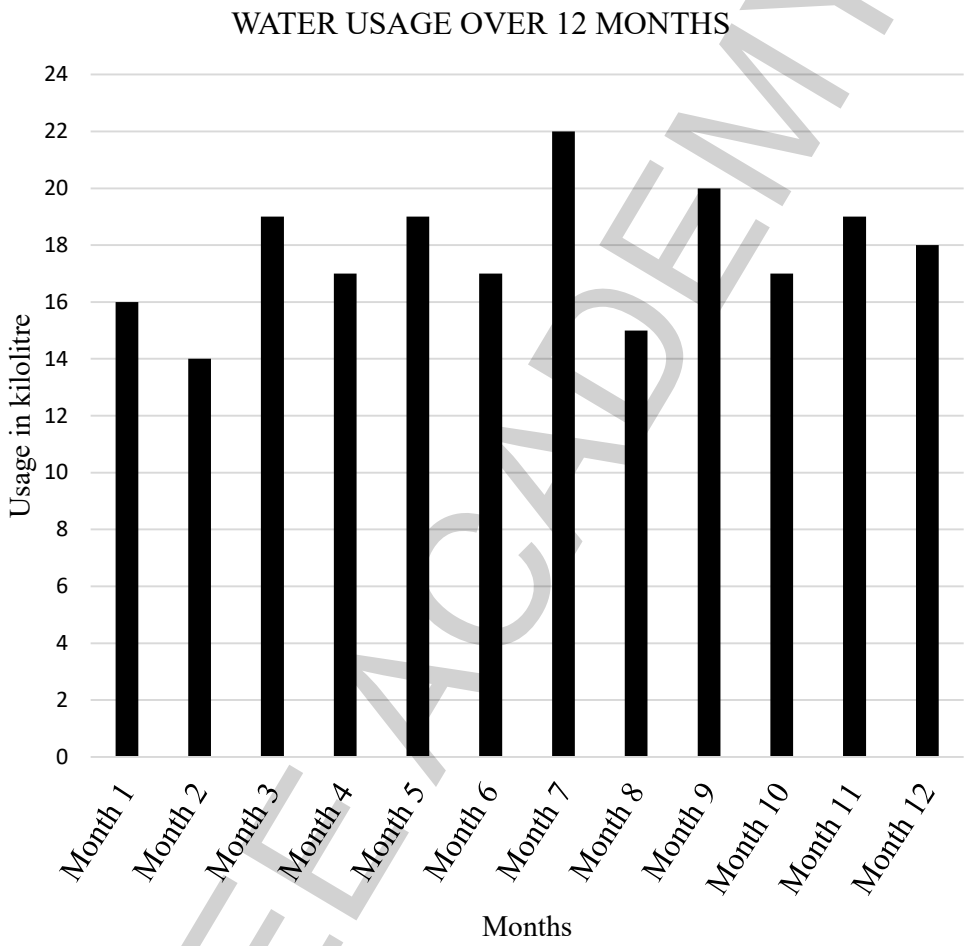
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4.2 Over a year's time Mr. Bernard keep record of his family's water usage.

He drew a graph of this records.

Note: The water usage is rounded each month to the nearest whole number.



Use the information above to answer the questions that follow.

4.2.1 Determine the probability of randomly selecting a month with a water usage of less than 12 kilolitre. (2)

4.2.2 List all the values for water usage over 12 months from the graph and then determine the mode of the data set. (4)
[16]

TOTAL: 75

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ANNEXURE A

QUESTION 2.1

Jessica's dad, Bernard, showed his bank statement for October 2024 to her. He also gave her an extract of his bank's bank charges structure. All bank charges will be debited at the end of the month.

MR. BERNARD'S BANK STATEMENT FOR OCTOBER 2024

RSA BANK

CURRENT ACCOUNT STATEMENT

Accountname: Mr. B Jantjies
Accountnumber: 236892389275
Branch: Orkney (179462)
Statementdate: 31 October 2024
Frequency: Monthly
Statementperiod: 1 Oct 2024 to 31 Oct 2024

Date	Transaction details	Debit	Credit	Balance
01/10/2024	Opening balance			R14 680,00
01/10/2024	Interest on credit balance		R57,00	
02/10/2024	Stop order – NW Insurance	R2 700,00		**2.1.2**
05/10/2024	PnP debit card purchase	R940,00		
10/10/2024	Debit order – Municipality	R3 860,00		
14/10/2024	Cash withdrawal (branch)	R1 300,00		
15/10/2024	Stop order – Toyota SA	R4 700,00		
17/10/2024	Checkers debit card purchase	R1 660,00		
20/10/2025	Stop order – NW properties	R5 500,00		
25/10/2024	Salary – EFT deposit		R28 000,00	
30/10/2024	Bank charges	R577,50		
	Closing balance			?

EXTRACT FROM RSA BANK TRANSACTION FEE STRUCTURE

TRANSACTION TYPE	
Payments	
Stop order (internal)	R6,50 + 1,2% of the amount
Stop order (external)	R7,50 + 1,35% of the amount
Debit order (internal)	R4,85
Debit order (external)	R16,75
Cash withdrawal	
Own bank ATM	R1,45 per R100 or part of
Other bank ATM	R6,80 + R2,60 per R100 or part of
Own bank branch	R3,50 + R1,50 per R100 or part of
Debit card payments	
Swipe at counter	R0,50 per R100 or part of

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