Downloaded from SEE academy: www.seeacademy.coza

education

Department:
Education
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 10

MATHEMATICAL LITERACY P1

JUNE 2024

MARKS: 50

TIME: 1 hour

This question paper consists of 7 pages including two ANNEXURES.

SEE ACADEMY

Copyright reserved

Downloaded from SEE academy: www.seeacademy.coza

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 the ANNEXURES in the ADDENDUM to answer the following questions:

   ANNEXURE A for QUESTION 2.3
   ANNEXURE B for QUESTION 3.2

   Remove the pages from the question paper and add it to your answer script.
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.

SEE ACADEMY

Copyright reserved

Downloaded from SEE academy: www.seeacademy.coza

QUESTION 1

Susan went to the local supermarket and bought a few items.
She received the following till slip from the dealer.

STAR GENERAL DEALER
Market street 54, Lichtenburg

Sugar 2 kg	R54,00
Coffee 750 g	R165,95
White bread	R17,95
Chips 150g Salt & vinegar	R15,95
Chips 150g Chutney	R15,95
TOTAL	**R269,80**
VAT (included)	**R35,19**
Cash	**R300,00**
Change	**R40,20**

17/03/2024 10:56
Cashier: Michael Jacobs
Thank you for shopping with us!

Use the above document to answer the questions that follow.

1.1 Write down the name of the supermarket where Susan bought the items. (2)

1.2 Calculate the price of 1 kg of sugar. (2)

1.3 Susan received a 20 cent coin as part of the change. The coin falls on the ground. What is the probability, as a fraction, that it lands on tails? (2)

1.4 Write, in words, the TOTAL amount Susan spent. (2)

1.5 Write the acronym VAT in full. (2)
[10]

SEE ACADEMY

Downloaded from SEE academy: www.seeacademy.coza

QUESTION 2

Susan bought a new cell phone and she wanted to determine the cost of the calls. She found the following call rate from a service provider: 2 cents per second, including VAT.

TABLE 1: CALL RATE FROM A SERVICE PROVIDER.

Seconds	0	10	35	**A**	60
Cost in cents	**B**	20	**C**	80	120

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

2.1 Write down the dependent variable shown in the table above. (2)

2.2 Calculate the value of **A, B** and **C**. (5)

2.3 Use ANNEXURE A to draw a line graph to show the cost per second for phone calls. (4)

2.4 Johnny, Susan's brother, claims that a call of 150 seconds will cost 265 cents, VAT exclusive. Verify, with calculations, if Johnny's statement is correct. (5)
[16]

QUESTION 3

Susan wants to investigate the shoe sizes of the learners in her school. She decided to collect the shoe sizes of 20 of the girls in her grade. The data (shoe sizes) collected is as follows:

TABLE 2: SHOE SIZES OF 20 GIRLS IN A GRADE

6	6	7	8	4	4	7	5	6	5
3	7	4	4	5	4	3	6	5	6

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

3.1 Is the data given discrete or continuous? (2)

3.2 Complete the frequency table in the answer sheet (ANNEXURE B) provided, using the data given in Table 2. (3)

3.3 Calculate the mean of the data set. (3)

3.4 Susan's friend Ann, told her that the investigation is bias or not a true reflection of a real life situation. Give a motivation why her friend's claim is valid. (2)
[10]

SEE ACADEMY

Downloaded from SEE academy: www.seeacademy.coza

QUESTION 4

4.1 Susan's family is planning to go on holiday and had to plan their finances accordingly. They drew up the following budget:

TABLE 3: SUSAN'SFAMILY BUDGET

INCOME	Rand	**EXPENSES**	Rand
Dad's salary	15 000	Rent	5 000
Mom's salary	12 000	Groceries	4 300
		Water and electricity	2 450
		Fuel	1 550
		School fees	2 850
		Insurance	950
		Savings	2 000
Total income		**Total expanses**	**19 100**

Use the information above to answer the questions that follow.

4.1.1 Susan wants to draw a graph to show how the different expenses contribute to the total expenses. She needs to determine the percentage of each expense in terms of the total expenses.

Which graph is suitable to represent the information above? (2)

4.1.2 Susan's dad will receive a 10% increase in his salary. Calculate the new surplus (after the increase) that the family will have. (4)

4.1.3 Susan claims that the savings are more than 10% of the expenses. Show by means of a calculation if her claim is valid or not. (3)

4.2 Susan's mother keeps record of the price of a 2 litre of milk over seven weeks. The prices are as follows:

3 095 cent	2 980 cent	3 115 cent	3 090 cent
3 255 cent	3 240 cent	3 245 cent	

Use the information above to answer the questions that follow.

4.2.1 Calculate the median, in Rand, for the above data. (3)

4.2.2 Round the answer in 4.2.1 to the nearest Rand. (2)
[14]

TOTAL: 50

SEE ACADEMY

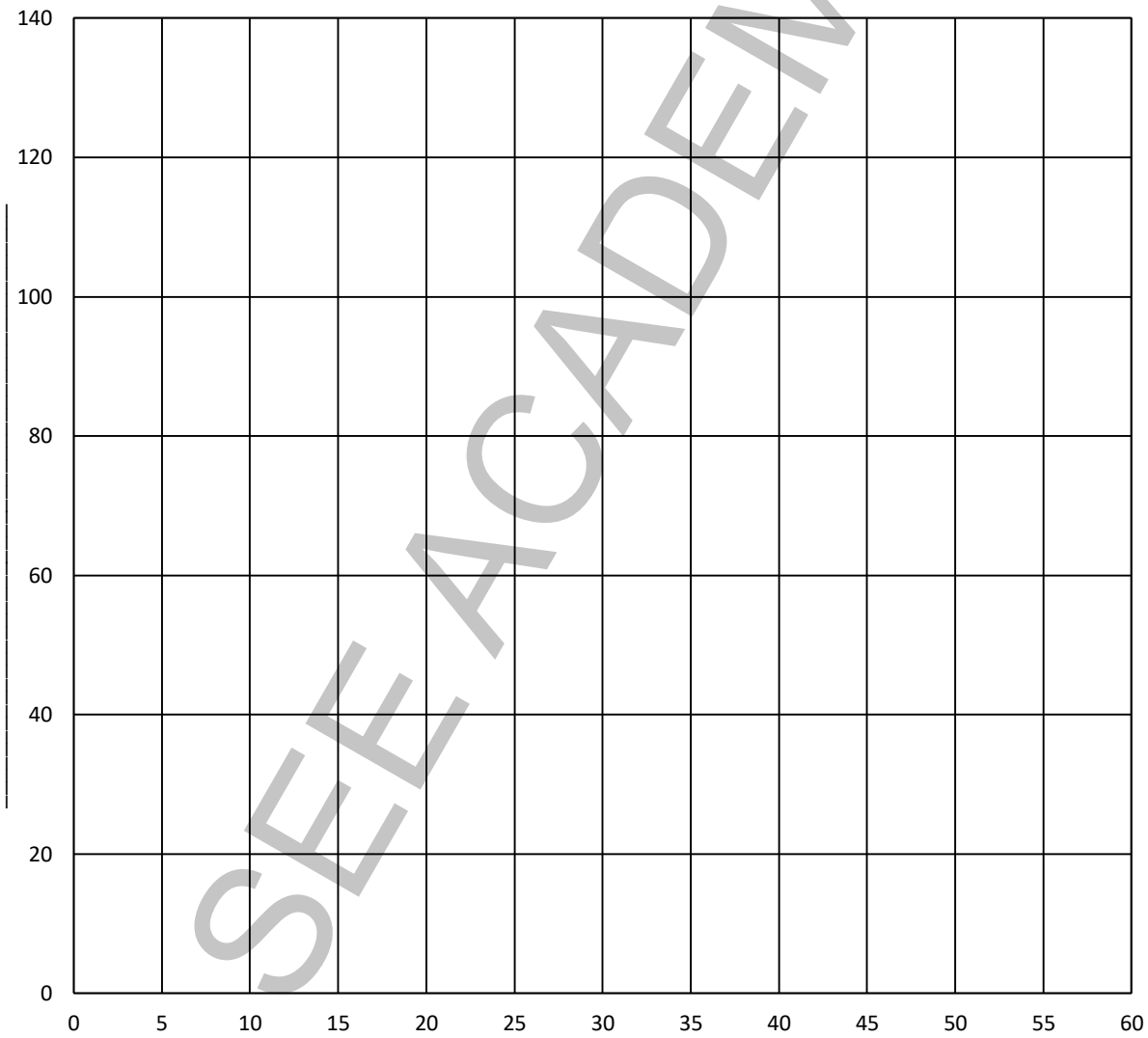
Downloaded from SEE academy: www.seeacademy.coza

NAME: _____ **GRADE: 10/_____**

ANNEXURE A

QUESTION 2.3

Cost per second for making a call



_____

SEE ACADEMY

Downloaded from SEE academy: www.seeacademy.coza

NAME: _____ **GRADE: 10/_____**

ANNEXURE B

QUESTION 3.2

Shoe size	Tally	Frequency
3		
4		
5		
6		
7		
8		

SEE ACADEMY

Copyright reserved