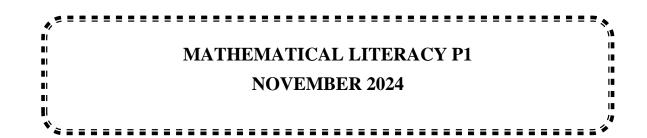


education

Department: Education North West Provincial Government REPUBLIC OF SOUTH AFRICA

PROVINCIAL ASSESSMENT

GRADE 11



MARKS: 100

TIME: 2 hours

This question paper consists of 10 pages.

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INSTRUCTIONS AND INFORMATION

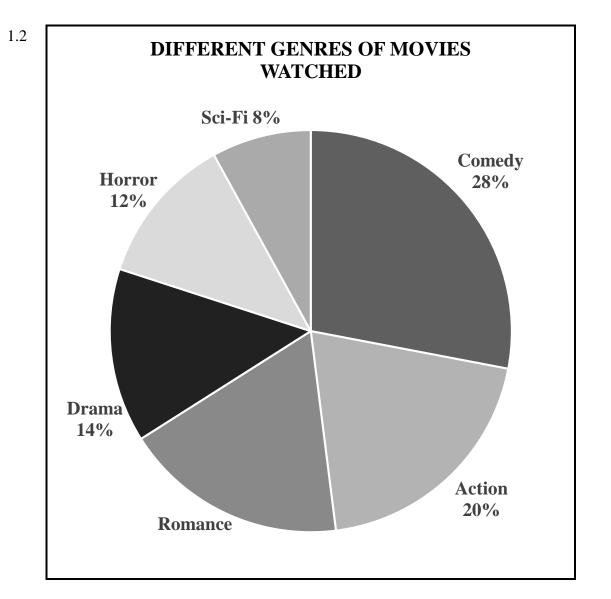
- 1. This question paper consists of FOUR questions. Answer ALL the questions.
- 2. Number the answers correctly according to the numbering system used in this question paper.
- 3. Start EACH question on a NEW page.
- 4. You may use an approved calculator (non-programmable and non-graphical), unless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

QUESTION 1

JANE'S SUPERMARK	ЕТ
Welcome to our store!	
A9 Daven Avenue, East Lond	lon
Telephone number: 043 711 1	234
BTW Registration No.: *** 95	1753
Coca Cola 2 ℓ	R24,95
Simba chips 125 g – salt & vinegar	R15,90
Yoghurt 6 pack – strawberry	R21,90
All Gold tomato sauce	R35,90
OMO washing powder 2 kg	R87,95
TOTAL	R186,60
CASH	R200,00
CHANGE	R13,40
# VAT 0%	R0,00
VAT 15%	R24,34
25/09/2024 16:10 Ca	shier: Belinda

Use the cash register slip above to answer the questions that follow.

1.1.1	How many items are purchased in total on the cash register slip?	(2)
1.1.2	During which month is this purchase made according to the cash register slip?	(2)
1.1.3	Define the term VAT.	(2)
1.1.4	Show how the R24,34 VAT amount is calculated.	(2)
1.1.5	Is this purchase paid with card or cash?	(2)
1.1.6	Write the total amount due in words.	(2)



Use the graph above to answer the questions that follow.

1.2.4	Determine the probability that a movie watched is a true-life story.	(2) [20]
1.2.3	Which genre is the most watched according to the graph above?	(2)
1.2.2	What percent romance movies is watched?	(2)
1.2.1	Name the type of graph used to represent the information above.	(2)

QUESTION 2

The Smith family would	like to go on	vacation in 2025. Mr. Smit	h examine
their finances per month	in 2024 and s	ets up the following monthly	y budget t
determine how much they	y can save for t	heir vacation the following y	ear.
TABLE 1: MONTHLY	BUDGET FO	R THE SMITH FAMILY	
INCOME		EXPENSES	
Mr. Smith salary	R25 000	Home loan	R8 400
(Manager)			
Mrs. Smith salary	R17 000	Car instalments	R8 200
(Teacher)			
Rent income	R5 000	Insurance	R2 100
		Groceries	
		(R1 150 per week)	
		Fuel	R4 500
		Entertainment	R2 000
		School fees and activities	R4 850
		Medical expenses	R1 850
TOTAL INCOME	R47 000	TOTAL EXPENSES	

Use the information above to answer the questions that follow.

2.1.1 Calculate how many litres of fuel the Smith family uses per month if the price of fuel is R23,25 per litre. (2)2.1.2 Calculate the total groceries for the month. (2)2.1.3 Calculate how much money the Smith family has left at the end of the month to save for their vacation. (4) 2.1.4 If the rent income they received per month in 2023 was R4 465, calculate, to the nearest whole number, the percentage increase from 2023 to 2024.

You may use the following formula:

% increase =
$$\frac{rent \ income \ 2024 - rent \ income \ 2023}{rent \ income \ 2023} \times 100\%$$
 (3)

2.1.5 Name ONE other type of income that a household can earn. (2)

2.2

National Park and it includes the following:

- Scheduled return flights from Johannesburg to the Kruger
- All road transfers between airport and activities
- 2 nights' accommodation at Sudwala Lodge
- 4 nights' accommodation at Sabie River Bush Lodge
- All breakfast and dinners included
- Elephant interaction where you and the little ones can feed, greet and walk hand-in trunk with the gentle giants
- Early morning and late afternoon off-road game drives that take place in an open 4×4 safari vehicle with a ranger and tracker team
- Child friendly facilities and kids activities
- Park and conservation fees

The cost for this package is from R24 999 per person sharing and is only available during low season.

Use the information above to answer the questions that follow.

- 2.2.1 Write the cost of the package in words.
- 2.2.2 Write in simplified form, the ratio of nights' accommodation at Sudwala Lodge to the nights' accommodation at Sabie River Bush Lodge.
- 2.2.3 Name ONE other expense that may be incurred during their holiday that is not included in the package.
- 2.2.4 Mr. Smith deposits R5 500 every month for the next 12 months in a savings account for their holiday. Every month he earns 7% interest on the amount he deposits. Calculate how much money he will have in total in his savings account after a year. (5)
- 2.2.5 Mrs. Smith invests R30 000 in a savings account and earns 9,2% interest per year, compounded bi-annually.

She claims that if she adds her money from her savings account together with her husband's money from his savings account after one year, they will have enough for 4 people to go on vacation to the Kruger National Park according to the travel package above.

Verify, by showing ALL calculations, whether her claim is CORRECT. (7)

[31]

(2)

(2)

(2)



QUESTION 3

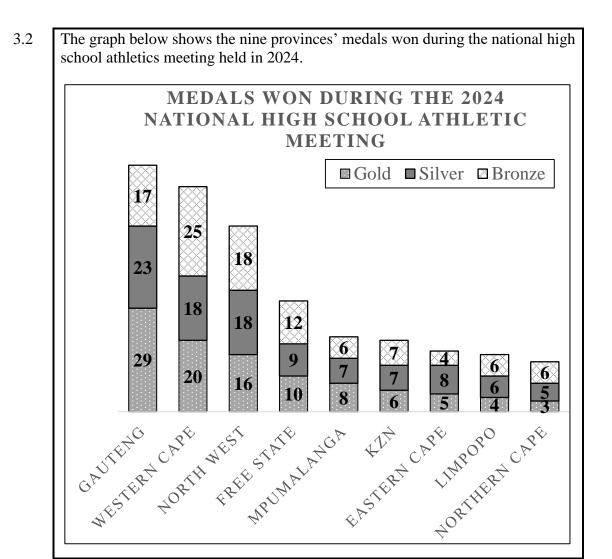
100 TAE	table below shows the termetre event. BLE 2: 10 FASTEST TI						
SOL	OUTH AFRICA NAME AND Time Date of birth Place of birth						
	SURNAME	(sec)					
1	Akani Simbine	09,82	21 September 1993	Kempton Parl			
2	Benjamin Richardson	09,86	19 December 2003	Pretoria			
3	Shaun Maswanganyi	09,87	01 February 2001	Soweto			
4	Henricho Bruintjies	09,89	16 July 1993	Paarl			
5	Retshidisitswe Mlenga	09,93	27 February 2000	Bloemfontein			
6	Wayde van Niekerk	09,94	15 July 1992	Kraaifontein			
6	Gift Leotlela	09,94	12 May 1998	Phuthaditjhab			
8	Thando Roto	Α	26 September 1995	King William			
				Town			
9	Simon Magakwe	09,98	14 May 1986	Itsoseng			
10	Emile Erasmus	10,01	03 April 1992	Pretoria			

Use the information above to answer the questions that follow.

3.1.1 Which athlete's times is the 4th fastest time ever from South Africa? (2)

[Adapted from https://worldathletics.org/record]

- 3.1.2 Arrange the date of birth of the 10 athletes from the oldest to the youngest. (2)
- 3.1.3 Determine the modal place of birth of the athletes. (2)
- Calculate A, the time of Thando Roto, if the average time is 3.1.4 09,919 seconds for the top 10 men in the 100 metre event. (4)
- Calculate the range of the 100 metre times. 3.1.5 (3)



Use the information above to answer the questions that follow.

3.2.1	How many medals did Gauteng won in total?	(2)
3.2.2	Determine the difference between North West and Free State's silver medals.	(3)
3.2.3	What percentage of Western Cape's total number of medals won was bronze during the 2024 national meeting?	(3)
3.2.4	Determine the probability of how many of the 9 provinces received more than 20 gold medals. Give your finale answer as a decimal number, rounded to TWO decimal places.	(3)
3.2.5	In 2023, during the national high school athletics meeting, Limpopo province only won 8 medals in total. It is claimed that their percentage growth from their total medals has increases by more than 50%.	

Verify, by showing ALL calculations, if the claim is VALID. (4)
[28]

QUESTION 4

4.1 Mrs. Molefe investigates his bank charges for a certain month. She looks at what transactions she has made during the month to determine how much each transaction's bank charges should be. The table below shows certain transaction costs of his bank.

TRANSACTIONS	TRANSACTION COSTS
Cash withdrawal from own bank's ATM	1,15% of the amount
	withdrawn
Cash withdrawal from another bank's ATM	R9,50 + own bank's
	transaction costs
Deposit at own bank's ATM	2,25% of amount deposited
Debit order/Stop order	R6,00 per transaction

Use the information above to answer the questions that follow.

- 4.1.1 Mrs. Molefe's opening balance for the month is R42 952,19. On the first of the month, the following debit orders were deducted from her account:
 - Insurance R2 100,00
 - Home loan instalment R8 800,00

Calculate her balance at the end of the first day of the month. (3)

4.1.2 On the 2nd of the month, an amount of R1 150 was withdrawn from her own bank's ATM. Calculate Mrs. Molefe's balance at the end of the 2nd of the month. (4)

LOAN	OAN FACTOR TABLE INTEREST RATE						
PERIOD	10% 10,25		10,50	10,75	11%	11,50	12,0
		%	%	%		%	%
3 years	32,27	32,38	32,50	32,62	32,74	32,98	33,
4 years	25,36	25,48	25,60	25,72	25,84	26,09	26,
5 years	21,25	21,37	21,49	21,62	21,74	21,99	22,
6 years	18,53	18,65	18,78	18,91	19,03	19,29	19,
				Selling pri	ce	R198 000)
			1	Deposit		R29 700	
		-		Interest rat	e	10,50%	
10			6	Terms		48 month	s

Use the information above to answer the questions that follow.

- 4.2.1 Determine the probability that the loan factor will be more than 19,00% for the loan period of 6 years. Give your finale answer as a percentage, rounded to the nearest whole number. (3)
- 4.2.2 Calculate the loan amount that Mrs. Molefe has to borrow for the motorcar once the deposit is taking into account. (2)
- 4.2.3 Use the loan amount (QUESTION 4.2.2) and the table of loan factors above to calculate her total monthly payment, plus R65,00 administration fee.

You may use the following formula:

Monthly payment =
$$\frac{loan \ amount}{1\ 000} \times loan \ factor$$
 (3)

4.2.4 Mrs. Molefe makes a statement that she will pay more than R40 000 of interest if she buys the motorcar with the 48-month option.

Verify, by showing ALL calculations, whether her statement is CORRECT. (6)

[21]

GRAND TOTAL: 100