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MID-YEAR EXAMINATION

GRADE 12

MATHEMATICAL LITERACY P2



This question paper consists of 09 pages and an addendum with 3 ANNEXURES.

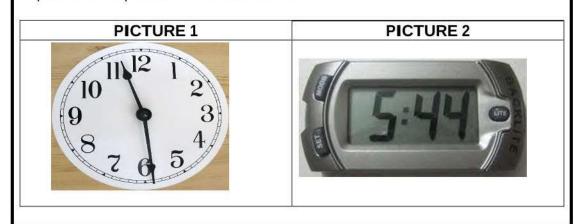
INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FOUR questions. Answer ALL the questions.
- 2. The ANNEXURE pages are provided in the ADDENDUM. Use it to answer the relevant questions.
 - ANNEXURE A is for QUESTION 1.1
 - ANNEXURE B is for QUESTION 2.
 - ANNEXURE C is for QUESTION 4.
- 3. Number the questions correctly according to the numbering system used in this question paper.
- 4. An approved calculator (non-programmable and non-graphical) may be used unless stated otherwise.
- 5. Show ALL calculations clearly.
- Round off ALL final answers appropriately according to the given context, unless stated otherwise.
- 7. Indicate units of measurement, where applicable.
- 8. Start EACH question on a NEW page.
- 9. Write neatly and legibly.



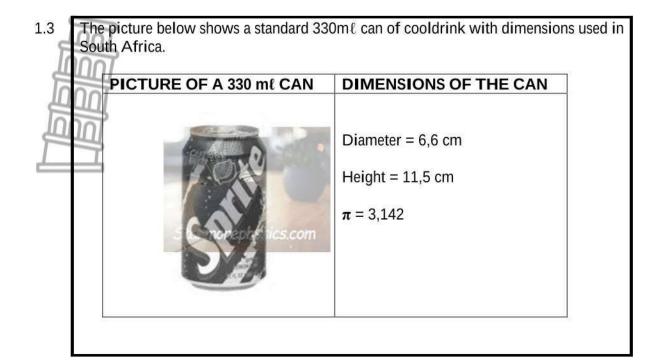
QUESTION 1

- 1.1 Reamorata is a student at Nelson Mandela Metropolitan University (NMMU) Vista Campus in Port Elizabeth. ANNEXURE A shows a map/plan of the layout of the campus where he attends classes.
 - Use ANNEXURE A to answer the questions that follow.
 - 1.1.1 Identify the type of map/plan used and write it down. (2)
 - 1.1.2 Give one purpose of the building marked as number 15. (2)
 - 1.1.3 Name the province where Port Elizabeth is situated. (2)
 - 1.1.4 What symbol is used to show parking on the campus? (2)
 - 1.1.5 How many lecture halls are shown on the map/plan. (2)
- 1.2 In picture 1 and picture 2 two clocks are shown.



Use the information above to answer the guestions that follow.

- 1.2.1 Name the two time formats used to display the time on the clocks. (2)
- 1.2.2 Write down, in words, the time displayed on the clock in picture 2. (2)
- 1.2.3 Convert 13 hours 57 minutes to hours. (2)



Use the information above to answer the questions that follow.

- 1.3.1 Define the term diameter according to the given context. (2)
- 1.3.2 State which formulae (A, B or C) below can be used to calculate the circumference of the circular bottom of the given can.
 - A. Circumference = $\pi \times \text{radius}^2$
 - B. Circumference = $2 \times \pi \times \text{radius}$
 - C. Circumference = $2 \times \pi \times \text{radius}^2$ (2) [20]



QUESTION 2

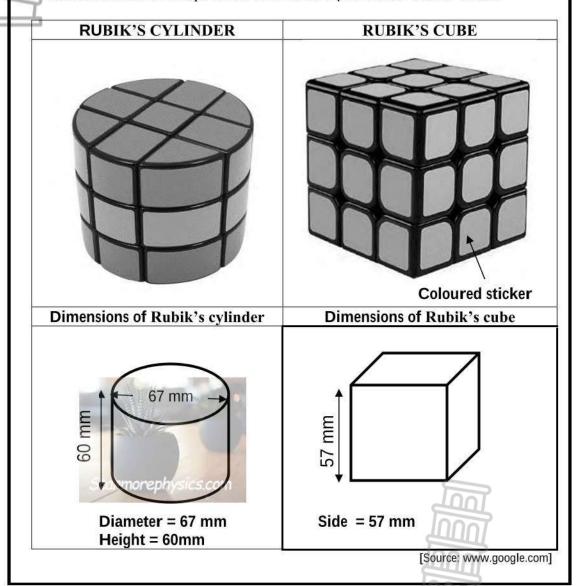
Į	Study	the map of South Africa on ANNEXURE B and answer the questions that follow.	È
	2.1	Name the two towns on the Garden Route nearest to Cape town.	(4)
	2.2	Determine the probability of finding a coastal town in the North West province. Write your answer as a percentage.	(2)
	2.3	State the number of provinces in South Africa.	(2)
	2.4	Identify the scale that is used on the map.	(2)
	2.5	Jenny states that the most eastern town in the Free State on the map is Bethlehem. Is Jenny correct? Give a reason for your answer.	(3)
	2.6	Write down the given scale on the map of South Africa in the form 1:	(5)
	2.7	Give the general direction of Bloemfontein to Cape Town.	(2)
	2.8	Identify a neighbouring country of South Africa where all the borders are provinces of South Africa.	(2) [22]



QUESTION 3

3.1 Jessamé's mom Ms Kasselman bought her two Rubik's puzzles. The one Rubik's puzzle has a cylindrical shape while the other one has a cubical shape.

The dimensions and the shape of the two Rubik's puzzles are shown below.



Use the information above to answer the questions that follow.

- 3.1.1 On each of the square faces of the Rubik's cube are 9 coloured stickers. How many stickers are on the whole Rubik's cube? (2)
- 3.1.2 Calculate the perimeter of the square face of Rubik's cube.

You may use this formula: Perimeter = Side + Side + Side + Side (2)

3.1.3 1000 10001

3.1.3 Ms Kasselman states that the volume of the Rubik's cylinder is 211,56657 cm³. Verify, showing ALL calculations, whether her statement is CORRECT.

You may use this formula:

Volume of the cylinder =
$$3,142 \times \text{radius}^2 \times \text{height}$$
 (5)

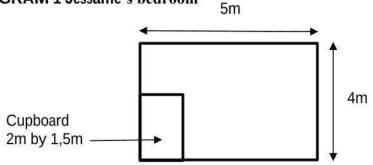
Calculate the total surface area of the Rubik's cube.

You may use this formula: Total surface area of the cube = 6 (Side × Side) (3)

3.2 Ms Kasselman decided to take out the carpet in Jessamé's bedroom and replace it with ceramic tiles. The room has an immovable cupboard. The cupboard will not be tiled inside.

The dimensions of Jessamé's bedroom are 4 m by 5 m and for the immovable cupboard it is 2 m by 1,5 m.

DIAGRAM 1 Jessamé's bedroom



Information:

- She intends using ceramic tiles that are 60 cm by 60 cm.
- There are 4 tiles in one box.
- The price of 1 box of tiles are R199,90.

Use the information above to answer the questions that follow.

3.2.1 Show that the total floor area to be tiled is 17 m².

You may use: Area of a rectangle = length × breadth (4)

3.2.2 Determine how many boxes of tiles Ms Kasselman will need if an extra 10 % of the number of tiles must be added for cutting of tiles and breakages. (9)

3.2.3 Determine the cost to buy the tiles. (2) [27]

QUESTION 4

4.1 Rethabile studied a strip chart connecting Durban with Port Elizabeth (lately known as Gqeberha).

On ANNEXURE C is a strip chart showing the road distance in kilometres from Durban to Port Elizabeth.

Use ANNEXURE C to answer the guestions that follow.

- 4.1.1 How many National Roads are on the strip chart? (2)
- 4.1.2 State one difference between a strip chart and a normal road map. (2)
- 4.1.3 Determine the distance between Port Elizabeth and Pietermaritzburg. (3)
- 4.1.4 Write down the probability, as a percentage of randomly selecting Addo Elephant NP from the places of interest on the strip chart. (3)
- 4.1.5 What is the name of the town nearest to the place where the R63 crosses the N6? (2)
- 4.2 Rethabile is a student at Durban Westville University. She decided to drive from Durban to Port Elizabeth to visit her brother Reamorata.
 - On her way Rethabile stopped at Port Shepstone for 30 minutes to stretch her legs.
 - Her next stop was at Umtata for 45 min to have lunch.
 - Then later she stopped at King William's town for 25 minutes.
 - The trip from Durban to Port Elizabeth took her 11 hours 35 minutes in total.

Rethabile stated that she did not exceed on average the maximum speed limit of 120km/h on national roads.

Verify, with calculations, whether Rethabile's statement is CORRECT

You may use this formula: Distance = speed \times time (8)

4.3 The	fuel	consumption	of	Rethabile's	car	is 7,9	ℓ/100 km
---------	------	-------------	----	-------------	-----	--------	----------

Use the information above to answer the questions that follow.

4.3.1 Calculate the total litres of fuel to be used from Durban to Port Elizabeth. Give your answer rounder to one decimal place.

(3)

4.3.2 Determine (rounded to the nearest thousand) the cost of petrol to drive from Durban to Nelson Mandela Metropolitan University Vista Campus, if the petrol price is R22,95 per litre.

(3)

4.4 Rethabile states that the distance from Durban to Port Shepstone using the N2 is 15 km longer than the distance from Port Shepstone to Port St. Johns using the R61. Is Rethabile correct? Do calculations to verify your answer.

[31]

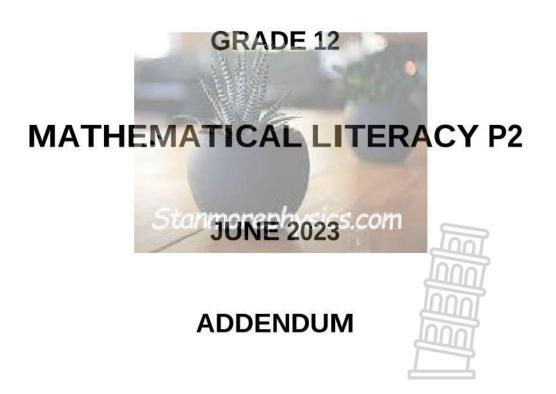
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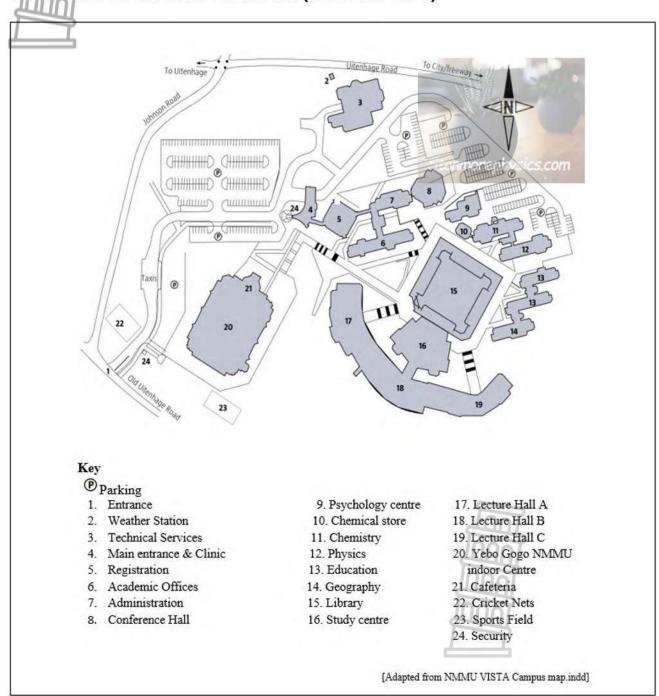
This addendum consists of 4 pages with 3 annexures.

Addendun

ANNEXURE A

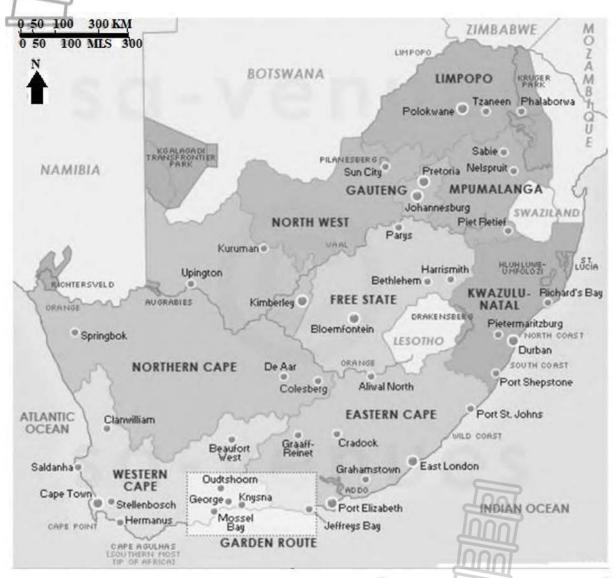
QUESTION 1.1

LAYOUT PLAN OF THE NELSON MANDELA METROPOLITAN UNIVERSITY VISTA CAMPUS IN PORT ELIZABETH (EASTERN CAPE)



ANNEXURE B QUESTION 2

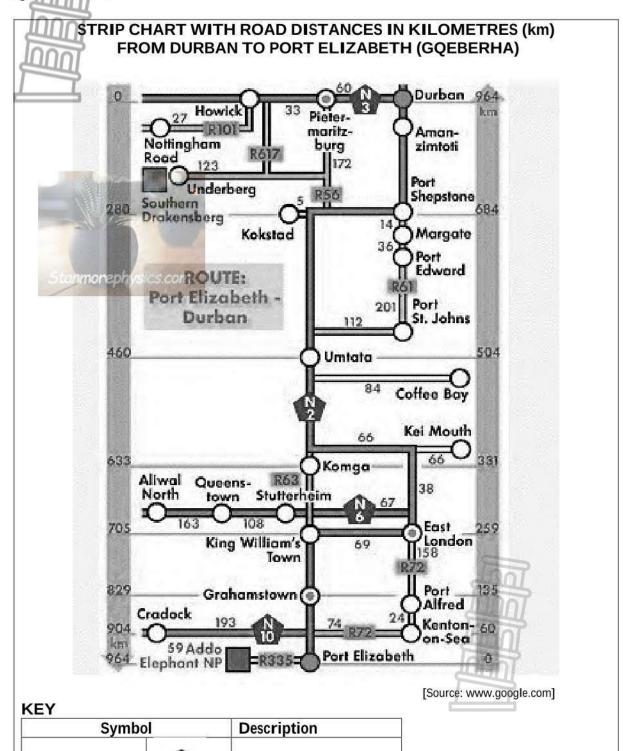
MAP OF SOUTH AFRICA



[source: www.sa-venues.com maps]

ANNEXURE C

QUESTION 4



National road

Regional road

Places of interest

N R

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MID-YEAR EXAMINATION

GRADE 12

MATHEMATICAL LITERACY P2

MARKING GUIDELINE

JUNE 2023

MARKS: 100

Symbol/Simbool	Explanation/Verduideliking
M	Method/Metode
M/A	Method with accuracy/Metode van akkuraatheid
CA	Consistent accuracy/Volgehoue akkuraatheid
A	Accuracy/Akkuraatheid
С	Conversion/Herleiding
S	Simplification/Vereenvoudiging
RT	Reading from a table/graph/diagram/Lees vanaf tabel/grafiek/diagram
SF	Correct substitution in a formula/Korrekte vervanging in formule
0	Opinion/Example/Definition/Explanation/Opinie/Voorbeeld/Definisie/Verduideliking
P	Penalty, e.g., for no units, incorrect rounding off, etc./Penalisasie, bv. vir geen
	eenhede/verkeerde afronding ens.
R	Rounding off/afronding
NPR	No penalty for correct rounding/Geen penalisering vir korrekte afronding nie
NPU	No penalty for the units/Geen penalisering vir eenhede nie
AO	Answer only, if correct, full marks/Slegs antwoord, indien korrek, volpunte
MCA	Method with consistent accuracy/Metode met volgehoue akkuraatheid

This marking guideline consists of 13 pages

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out (cancelled) an attempt to a question and NOT redone the solution, mark the crossed out (cancelled) version.
- Consistent accuracy (CA) applies in ALL aspects of the marking guidelines; however, it stops at the second calculation error.
- If the candidate presents any extra solution when reading from a graph, table, layout plan and map, then penalise for every extra item presented.
- Rounding is an independent mark.
- General principal of marking: If the candidate makes one mistake, he/she loses one mark.
- A conclusion mark can only be given if relevant calculations precede it.

QUE	QUESTION 1 [20MARKS] ANSWER ONLY FULL MARKS			
	Solution	Explanation		T/L
1.1.1	Layout Plan	2A correct map/plan		MP L1 E
1.1.2	To borrow/return books ✓ ✓ O OR	2A correct purpose		MP L1 M
	To read books ✓ ✓ O			
	OR			
	To study/use the internet/to do research ✓ ✓ O			
	OR			
	To access the computer ✓✓ O			
	Any acceptable answer – must be related to library		(2)	
		TOOL		MP
1.1.3	Eastern Cape/EC ✓ ✓ A	2A correct province	(2)	L1 E
1.1.4	P ✓✓A	2A correct symbol	(2)	MP L1 E
	Accept P		(2)	
				MP
1.1.5	3/Three ✓ ✓ A	2A correct number	(2)	L1 E

	Solution	Explanation	T/L
1.2.1	Picture $1 = 12$ - hour $\checkmark A$ Picture $2 = 24$ - hour $\checkmark A$	1A 1 st format 1A 2 nd format	M L1 E
	Accept Picture 1 = Analogue ✓ A	174 2 Torriat	
	Picture 2 = Digital ✓ A	(2)	
1.2.2	✓A ✓A Sixteen minutes to six in the morning.	1A correct time 1A in the morning	M L1 E
	Accept		
	✓A Forty-four minutes past five in the morning.	(2)	
1.2.3	Time in hours = $13h + \frac{57}{60} \checkmark A$	1C dividing by 60	M L1 M
	= 13h + 0.95h		
	= 13,95h ✓ A	1A correct hours	
1.3.1	The line that divides the circular bottom of the can into two equal parts. ✓✓O	2O correct explanation	M L1 E
	OR		
	A straight line passing from one side to the other side through the centre of the can. $\checkmark \checkmark O$		
1.3.2	B/ Circumference = $2 \times \pi \times \text{radius}^{\checkmark} \circ O$	2A correct formulae (2)	

	STION 2 [22 MARKS]		T
Item	Solution	Explanation	T/L
2.1	Oudtshoorn 🗸 🗸 O	2A first town	MP
	Mossel Bay ✓✓O	2A second town	L1
		(4)	M
2.2			MP
	0% ✓✓A	2A correct percentage	L2
	0 only (1 mark)	(2)	Е
2.3			MP
	9/Nine ✓ ✓ A	2A correct number	L1
		(2)	Е
2.4			MP
	Bar/Line/Linear scale/graphic scale ✓ ✓ A	2A correct scale	L1
		(2)	Е
2.5	Jenny is not correct ✓O	1O opinion	MP
	The most eastern town is Harrismith ✓ ✓ O	2o correct reason	L4
		(3)	Е
2.6			MP
	Bar scale distance = 20mm ✓A	1A correct measurement	L3
	20 mm = 300 km ✓ MCA	1MCA concept of scale in the	M
	$20 \text{mm} = 300 \times 1\ 000\ 000 \checkmark \text{C}$	correct order	
		1C converting km to mm	
	$1 \text{mm} = \frac{300\ 000\ 000}{300}$		
	20		
	= 15 000 000√S	1S correct simplification	
	Scale is 1: 15 000 000√CA	1CA scale/format	
		(5)	

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2.6	OR		
	Bar scale distance = 2cm√A	1A correct measurement	
	2 cm = 300 km ✓ MCA	1MCA correct concept of	
	2 cm = 500 km v MCA	scale in the correct order	
	$2 \text{ cm} = 300 \times 100\ 000 \checkmark \text{C}$	1C converting km to cm	
	30 000 000		
	$1mm = \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		
	= 15 000 000√S		
		1S correct simplification	
	Scale is 1: 15 000 000√CA	1CA scale/format	
	NB: Check if learners are working with 100 km or	(5)	
	50km for full marks.	(5)	
			MP
2.7	Southwest / SW ✓ ✓ A	2A correct direction	L2
		(2)	M
			MP
2.8	Lesotho ✓✓A	2A correct country	L2
		(2)	Е



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3.1.1	Solution Number of stickers = $6 \times 9 \checkmark MA$	Explanation	T/L
Ī	Number of stickers = $6 \times 9 \checkmark MA$	1MA multiplying correct	M
Ī		values	L2
	= 54 √A	1A correct answer	Е
		AO	
		(2)	
3.1.2			M
	Perimeter = $S + S + S + S$	1SF correct substitution	L2
	$= 57 \text{mm} + 57 \text{mm} + 57 \text{mm} + 57 \text{mm} \checkmark \text{SF}$		Е
	= 228 mm√A	1A simplification	
	220 mm 11	OR	
	OR		
	Perimeter = 4 S		
	Perimeter = 4.5		
	= 4 × 57mm√SF	1SF correct substitution	
	= 228 mm√A	1A simplification	
		NPU	
		AO	
		(2)	
3.1.3	Doding 67 mm 22.5 mm (A		M
	Radius = $\frac{67 \text{ mm}}{2}$ = 33,5 mm \checkmark A	1A calculating the radius	L4
	= 3,35 cm√C	1C converting radius	D
	Height = $\frac{60}{10}$ = 6 cm \sqrt{C}	1C converting height	
	$Height = \frac{10}{10} = 0 \text{ cm}^{2} \text{ C}$	TC converting neight	
	Volume of the cylinder = $3,142 \times r^2 \times h$ \checkmark SF		
	$= 3,142 \times 3,35 \text{ cm}^2 \times 6 \text{ cm}$	1SF substitution	
	$= 211, 56657 \text{ cm}^3$		
	Her statement is correct. ✓O		
		1O opinion	

OR

Radius =
$$\frac{6.7 \text{ cm}}{2}$$
 \checkmark C

 $= 3.35 \text{ cm} \checkmark \text{A}$

Height =
$$\frac{60}{10}$$
 = 6 cm \checkmark C

Volume of the cylinder =
$$3,142 \times r^2 \times h$$

$$= 3,142 \times 3,35 \text{ cm}^2 \times 6 \text{ cm}$$

$$= 211, 56657 \text{ cm}^3$$

Her statement is correct. ✓O

OR

Radius =
$$\frac{67 \text{ mm}}{2}$$
 = 33,5 mm \checkmark A

Volume of the cylinder = $3,142 \times r^2 \times h$

$$\checkmark SF$$
= 3,142 × 33,5 mm² × 60 mm

$$=211\ 566,57 \div 1\ 000^{\checkmark}$$
C

= 211,56657

Her statement is correct. ✓O

OR

1C converting radius

1A calculating radius

1C converting height

1SF substitution

10 opinion

1A calculating radius

1SF substitution

1CA simplification

1C conversion

10 conclusion

(5)

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FS/June 2023

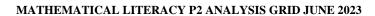
3.1.4			M
	Total surface area of the square = $6 (S \times S)$ $\checkmark SF$		L2
	$= 6 (57 \text{ mm} \times 57 \text{ mm})$	1SF correct substitution	M
4	$ \begin{array}{l} \checkmark \text{CA} \\ =19494 \text{ mm}^2 \checkmark \text{U} \end{array} $	1CA simplification	
4		1U correct units	
7	OR		
	Total surface area of the square $= 6 S^2$	OR	
	$= 6 \times (57 \text{ mm})^2 \checkmark \text{SF}$		
	$=19 \overset{\checkmark}{494} \overset{CA}{\text{mm}^2} \checkmark U$	1SF correct substitution	
	=19 494 mm ² * 0	1CA simplification	
		1U correct units	
		(3)	
3.2.1	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		M
	Area a bedroom = length \times breadth		L3
	$= 5 \text{ m} \times 4 \text{ m} \checkmark \text{SF}$	1SF correct substitution	M
	$=20 \text{ m}^2 \checkmark \text{A}$	1A correct area	
	Area of the cupboard = length \times breadth		
	$= 2 \text{ m} \times 1,5 \text{ m}$		
	$= 3 \text{ m}^2 \checkmark \text{A}$	1A correct area	
	Area to be tiled = $20 \text{ m}^2 - 3 \text{ m}^2 \checkmark \text{MA}$	1MCA subtracting areas	
	$= 17 \text{ m}^2$	(4)	

3.2.2	Area of a tile = $60 \text{ cm} \times 60 \text{ cm} \checkmark \text{SF}$	1 SF substitution	M
	$= 3 600 \text{ cm}^2$		L3
	0001	1C converting.	D
1	$= \frac{3600}{10000} \checkmark C$	104 1:6: 4:	
4		1CA simplification	
	$= 0.36 \text{ m}^2 \checkmark \text{CA}$		
	17	1MCA dividing converted	
	Number of tiles = $\frac{17}{0,36} \checkmark MCA$		
	= 47,22222222 ✓ CA	areas.	
	,	1CA simplification	
	Number of extra tiles = $47,222222222 \times 10\%$ \checkmark MCA	1MCA calculation 10%	
	= 4,722222222 × 10% • WEY		
	Total number of tiles needed		
	= 47,22222222 + 4,722222222		
	= 51, 94444444√CA	1CA simplification	
	Number of boxes needed = $\frac{51,94444444}{4}$ \checkmark MCA	1MCA dividing by 4	
	4		
	= 12, 98611111	1CA rounding up.	
	≈ 13 boxes ✓CA	ND for souls rounding	
		NP for early rounding	
		(9)	
3.2.3		CA from 3.2.2	M/F
	Cost to buy tiles = $13 \times R199,90 \checkmark MCA$	1MCA calculating cost	L2
	= R2 598,70 √CA	1CA final answer	E
		(2)	

QUESTION 4 [31 MARKS]						
Item	Solution	Explanation	T/L			
4.1.1			MP			
	4/Four ✓✓ A	2A correct number	L1			
,		(2)	Е			
4.1.2	A strip chart is not drawn to scale while a road map is	2A explanation	MP			
	drawn to scale. ✓✓ A OR		L1			
			M			
	A strip chart shows the routes as straight line while a road map shows the routes in the winding manner. $\checkmark \checkmark A$	(2)				
4.1.3	Distance between Port Elizabeth and Pietermaritzburg		MP			
	√RT	1RT both correct values	L2			
	$= 964 + 60 \checkmark MA$	1 MA adding correct values.	M			
	= 1024 km√CA	1CA total kilometres				
	10211411 611	AO				
		(3)				
4.1.4			P			
	√A 1	1A numerator	L2			
	Probability = $\frac{1}{2} \times 100$	1A denominator	M			
	= 50 % ✓CA	1CA simplified as %				
		AO				
		(3)				
4.1.5	Stutterheim ✓ ✓ A	2A correct town	MP			
		(2)	L2			
			Е			

4.2	Stopping time		M
	= 30min +45 min + 25 min	1A total stopping time.	L4
	= 100 min ✓ A		D
9	100		
1	60	1C convert to hours.	
	$= 1 \text{ hr } 40 \text{ min } \checkmark \text{C}$		
	Travelling time		
	= 11hrs 35 min – 1hr 40 min		
	= 9 hrs 55 min√CA	1CA travelling time.	
	$= 9 \text{ hrs} + \frac{55}{60}$		
	≈ 9,916666667 hrs ✓ C	1C conversion	
	Distance = speed \times time		
		1SF substitute into formula	
	964 km = speed × 9,9166666667 hrs√SF	1S change of subject of the	
	ocal	formula.	
	Speed = $\frac{964 \text{ km}}{9,916666667 \text{ hrs}}$ \checkmark S	1CA simplification	
	= 97,21 km/h√CA	10 verification	
	She is correct. She drove on average less than the national	10 verification	
	road speed limit of 120 km/h ✓O		
		OR	
	OR		
	Stopping time		
	= 30min +45 min + 25 min	1A total stopping time	
	= 100 min ✓A	171 total stopping time	
	Travelling time		
	= 11hrs 35 min – 100 min	1C convert to minutes	
	√C	1CA travelling time	
	$= [(11 \times 60) + 35 \text{ min}] - 100 \text{ min}$	Terr travelling time	
	= 595 min√CA	1SF substitute into formuila	
	Distance = speed \times time	151 Substitute Into Torritura	
	964 km = speed × 595 min√SF		

	$Speed = \frac{964 \text{ km}}{595 \text{ min}} \checkmark S$	1S change of subject of the	
	000	formula	
	= 1,620168067 km/min		
4	$= 1,620168067 \times 60 \text{min} \checkmark \text{C}$	1C conversion	
4	= 97,21 km/h ✓CA	1CA simplification	
	She is correct. She drove less than national road speed		
	limit 120 km/h ✓O		
		10 verification	
		NPR	
		(8)	
4.3.1	Fuel Consumption		M
4.5.1	•	1MA multiplying by 964 km	L2
	$= \frac{7.9\ell/\mathrm{km}}{100\mathrm{km}} \times 964\mathrm{km} \checkmark \mathrm{MA}$	TWA multiplying by 904 km	M
	= 76,156ℓ ✓CA	1CA Simplification	171
	≈ 76,2ℓ	1R correct rounding	
		TK correct rounding	
		(3)	
4.3.2		CA from Question 4.3.1	M/F
	Petrol cost = $76.2\ell \times R$ 22,95 \checkmark MCA	1MCA multiplying by fuel	L2
	= R1 748,79 ✓CA	consumption.	M
	≈ R2 000,00 ✓R	1CA Simplification	
		1R rounding (3)	
4.4	From Durban to Port Shepstone using N2 = 280 km ✓ RT	1RT 280 km	L4
	From Port Shepstone to Port St Johns using R61:		MP
	√MA	1MA adding all three correct	M
	$14 \text{km} + 36 \text{km} + 201 \text{ km} = 251 \text{ km} \checkmark \text{CA}$	values	
	$280 \text{ km} - 251 \text{ km} = 29 \text{ km} \checkmark \text{CA}$	1CA simplify	
	Rethabile is not correct ✓ O	1CA subtract and answer	
		10 correct opinion	
		(5)	



	5 L1	L2	L3	L4	MP	М	Р	Е	М	D
1.1.1	2				2			2		
1.1.2	2				2			2		
1.1.3) 2				2			2		
1.1.4	2				2			2		
1.1.5	2				2				2	
1.2.1	2					2		2		
1.2.2	2					2		2		
1.2.3	2					2			2	
1.3.1	2					2		2		
1.3.2	2					2		2		
2.1	4				4			4		
2.2		2					2	2		
2.3	2				2			2		
2.4	2				2			2		
2.5				3	3			3		
2.6			5		5				5	
2.7		2			2				2	
2.8		2			2			2		
3.1.1		2				2			2	
3.1.2		2				2		2		
3.1.3				5		5			5	
3.1.4		3				3			3	
3.2.1			4			4			4	
3.2.2			9			9				9
3.2.3		2				2		2		
4.1.1	2				2			2		
4.1.2	2				2				2	Loc
4.1.3		3				3			2	100
4.1.4		3					3		2	
4.1.5		2			2			2		NNO
4.2				8		8				8
4.3.1		3				3			3	
4.3.2		3				3			3	
4.4				5	5				5	
	32	29	18	21	41	54	5	39	42	17
Target	30	30	20	20	40	55	5	40	40	20