



education

Department:
Education
PROVINCE OF KWAZULU-NATAL

ENQUIRIES: MR D.A. SEWLALL DATE: 13 JUNE 2017

NATIONAL SENIOR CERTIFICATE: COMMON TEST JUNE 2017:
GRADE 12

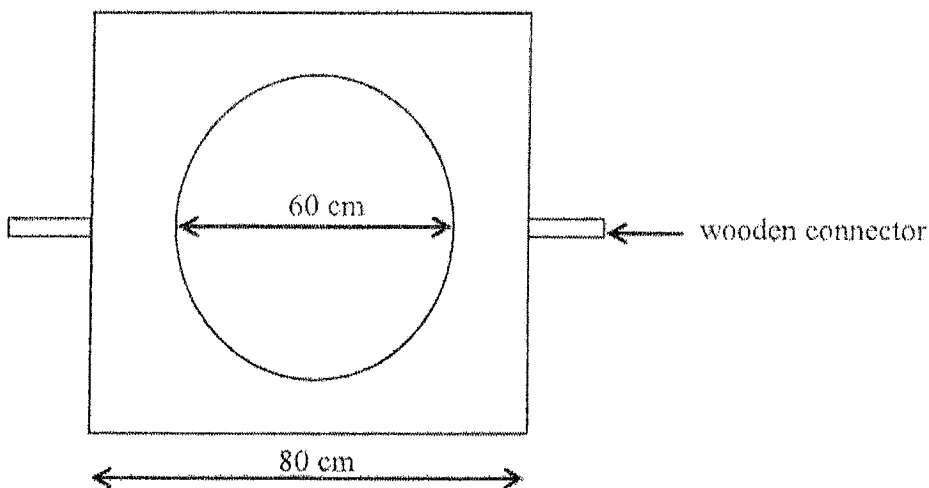
TO: THE CHIEF INVIGILATOR OF ALL SCHOOLS OFFERING
MATHEMATICAL LITERACY P1

ERRATA (question paper and addendum)


Please take note of the following change:

PAGE	NUMBER	ERROR	CORRECTION
3	1. Line 2 (Scenario)	She earns a basic salary of R5 200, 00	She earns a basic salary of R6 500, 00
6	3.1	Area of a square = πr^2	Area of a circle = πr^2
7	4.3 (Line 2)	Calculate the maximum time.	Calculate the estimated driving time.
8	5.5	Calculate the range between the total numbers of totals for the stated period.	Calculate the difference between the total number for foreign travellers and South African residences during the stated period.

ANNEXURE B: QUESTION 3 (Please ignore the diagram of a wooden frame on page 3)

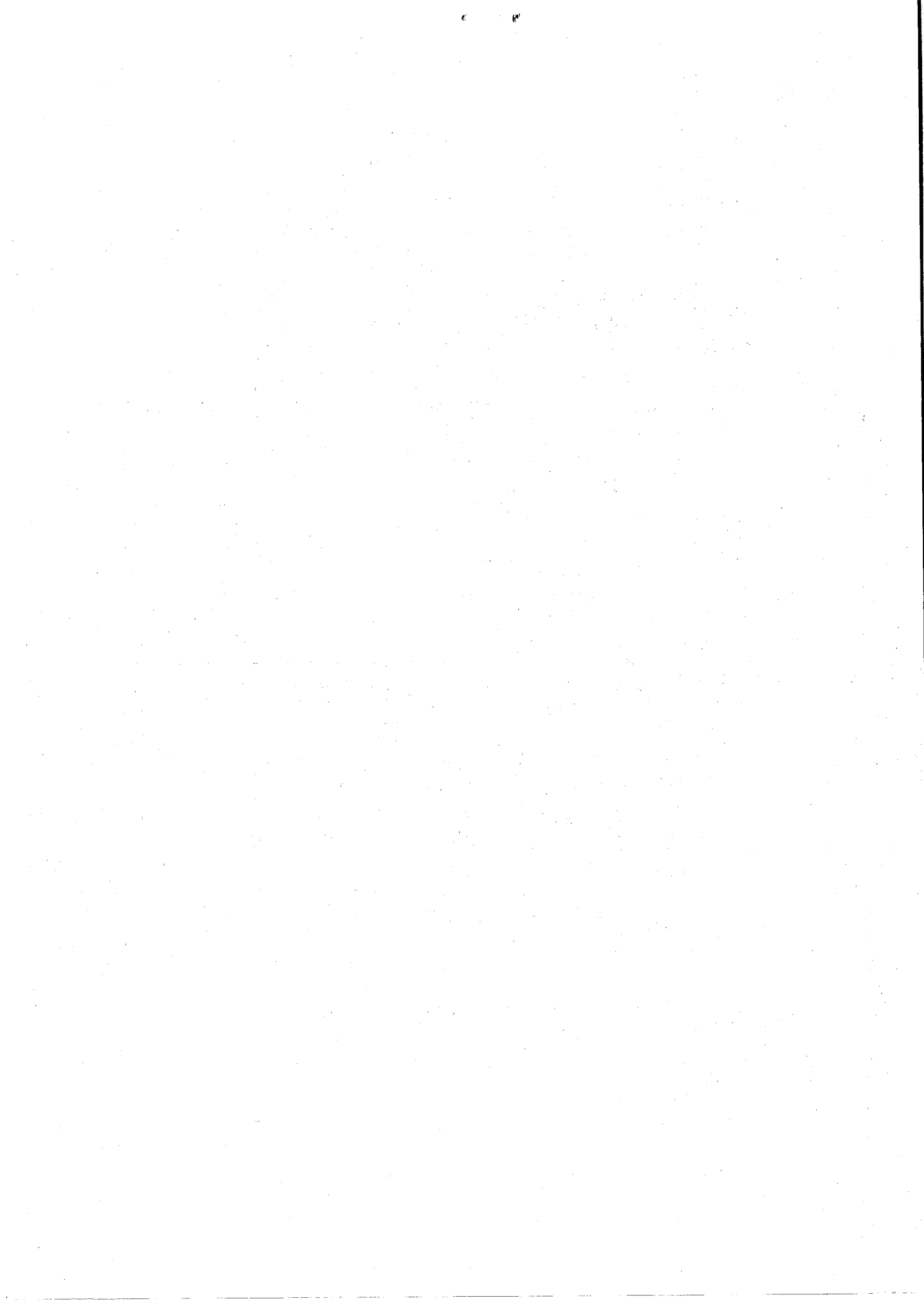


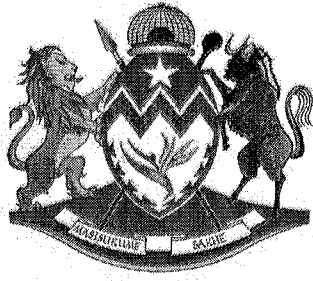
Kindly ensure that candidates are informed of the Errata.


 MS N.V. MCAMBI
 DEPUTY MANAGER
 PROVINCIAL EXAMINATIONS SERVICES

13/6/2017
 DATE

... Together moving South Africa forward through quality education and skills development





Education

KwaZulu-Natal Department of Education
REPUBLIC OF SOUTH AFRICA

MATHEMATICAL LITERACY P1

COMMON TEST

JUNE 2017

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

MARKS: 100

TIME: 2 hours

**This question paper consists of 8 pages and
an addendum with 5 Annexures (5 pages).**

INSTRUCTIONS AND INFORMATION

1. This question paper consists of **FIVE** questions. Answer **ALL** the questions.
2. Use the ANNEXURES in the addendum to answer the following questions .

ANNEXURE A for QUESTION 2
ANNEXURE B for QUESTION 3
ANNEXURE C for QUESTION 4
ANNEXURE D for QUESTIONS 5.1, 5.2, 5.3, 5.4 and 5.5
ANNEXURE E for QUESTIONS 5.6.1, 5.6.2 and 5.6.3
3. Number the answers correctly according to the numbering system used in this question paper.
4. Start **EACH** question on a **NEW** page.
5. An approved calculator (non-programmable and non-graphical) may be used, unless stated otherwise.
6. **ALL** the calculations must be clearly shown.
7. Round off **ALL** final answers appropriately according to the given context unless stated otherwise.
8. Units of measurement must be indicated where applicable.
9. Maps and diagrams are **NOT** necessarily drawn to scale, unless stated otherwise.
- 10 Write neatly and legibly.

QUESTION 1

1.

Gloria is employed at the *Phone 4 U* cellphone shop. She contributes 1% of the basic salary to the Unemployment Insurance Fund (UIF). She earns a basic salary of R5 200,00. Gloria's payslip is shown below with the missing values.

Refer to the payslip below and answer the following questions.

Name of company : Phone 4 U	Period : 30 April 2017
Employee name : Gloria Luvuno	ID Number : 750705 0341 08 0
Job title : Shop assistant	Bank Account Number: 123 620 7855
Income	Deductions
Basic Salary: R6 500, 00	UIF: (A)
Commission: (B)	Medical Aid: R415,00
Total income: (C)	Total deductions: (D)
	Net pay : (E)

- 1.1 Calculate the amount contributed to the UIF (A). (2)
- 1.2 Gloria receives R125, 00 commission for each cellphone sold. Calculate her commission (B) if 43 cellphones were sold in April 2017 (2)
- 1.3 Calculate Gloria's total income (C). (2)
- 1.4 Calculate Gloria's total deductions (D). (2)
- 1.5 Hence calculate Gloria's net salary (E). (2)
- 1.6 Of the 43 cellphones sold, 20 were black, 15 were white and 8 were red.
- 1.6.1 What is the probability of choosing a black cellphone if randomly selected? (2)
- 1.6.2 What is the probability as a percentage of NOT choosing a red cellphone if randomly selected? (3)

1.7 Gloria buys red meat for her family at R83, 99 per kilogram. She paid R209, 98.

1.7.1 Determine the number of kilograms of meat she bought. (2)

1.7.2 Meat is packed in rectangular boxes with length = 35 cm, width = 17 cm and height = 15 cm. Calculate the volume of the box.

You may use the following formula:

Volume of a rectangular prism = length × width × height. (2)

1.8 A local historian records the ages of people who visited the museum and those who visited the sport shop on a particular day.

Ages of people who visited the museum

54 ; 45 ; 35 ; 46 ; 48 ; 67 ; 53 ; 47 ; 49 ; 53 ; 32 ; 28 ; 33 ; 44

Ages of people who visited the sport shop

23 ; 25 ; 26 ; 26 ; 27 ; 28 ; 30 ; 31 ; 32 ; 33 ; 36 ; 40 ; 40

1.8.1 Arrange the ages of people who visited the museum in descending order. (2)

1.8.2 Determine the:

(a) median for people who visited the sport shop. (2)

(b) mode for people who visited the sport shop. (2)

1.9 The school sports organiser requested quotations for the trip from two bus companies. Company A charges R200, 00 plus R13,00 per kilometre travelled. Company B charges R21, 00 per kilometre travelled.

(a) Calculate the total cost if they travel for 50 km using **company A** buses. (2)

(b) Calculate the total cost if they travel for 50 km using **company B** buses. (2)

(c) Which company is the cheapest? (2)

[31]

QUESTION 2

2. Dennis is a secretary at an old age home in Port Shepstone. He compiled the income and expenditure statements for the home for 2015 and 2016 financial years. ANNEXURE A in the addendum shows the income and expenditure statement.

Use the information above and ANNEXURE A to answer the following questions.

- 2.1 Calculate the total income (**F**) for 2016. (2)
- 2.2 Which income source yielded the highest income for the old age home in both years? (2)
- 2.3 Determine the unit ratio of events to grants in 2015 in the form of **1: ...** (2)
- 2.4 Calculate the expenditure (**G**) on salaries in 2015. (3)
- 2.5 Write the 2016 expenditure on salaries as a percentage of the total expenditure. Round the answer to the nearest whole number. (3)
- 2.6 Explain the term *deficit* in this context. (2)
- 2.7 In which year did the old age home make a deficit? (2)
- 2.8 Name the expenditure that was the same in both financial years. (2)
- 2.9 Determine the decrease (in rands) on sponsorship in 2016. (2)
- [20]**

QUESTION 3

3. The community of Good Hope attend a meeting at the community hall. The length of the two opposite inside walls is 20 metres each. The walls are decorated with square wooden frames with the circular piece of glass at the centre. There are 3 wooden frames on each two opposite side walls. Each side of the frame is 80 cm. The diameter of the circular glass piece is 60 cm. The frames are joined by wooden connectors as shown in ANNEXURE B.

Use the information above and ANNEXURE B to answer the following questions.

- 3.1 Calculate the area of the piece of glass.

You may use the following formula:

$$\text{Area of a square} = \pi r^2 \quad \text{where } \pi = 3,142 \quad (2)$$

- 3.2 Calculate the area of the wooden part of the frame.

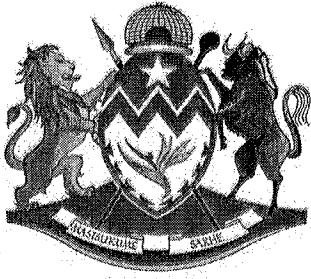
You may use the following formula:

$$\text{Area of a square} = \text{side} \times \text{side} \quad (4)$$

- 3.3 The wooden part is painted with brown paint. Determine the number of millilitres of paint needed if 100 ml covers 3,5 cm² of wood surface. (5)

- 3.4 Determine the total length of wooden connectors on both side walls. (5)

[16]



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MATHEMATICAL LITERACY P1

ADDENDUM

COMMON TEST

JUNE 2017

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GRADE 12

This addendum consists of 5 pages with 5 Annexures.

ANNEXURE A

QUESTION 2

INCOME AND EXPENDITURE STATEMENT FOR 2015 AND 2016

INCOME	2015	2016
Grants - State Government	160,000	177,000
Donations	6,500	5,000
Events	4,000	6,000
Sponsorship	18,000	8,000
Interest	3,500	6,000
Membership	2,500	3,720
Sundries	400	2,000
TOTAL INCOME	194,900	F
EXPENDITURE		
Salaries	G	128 000
Superannuation	8 280	11 520
Depreciation on office equipment	7 000	4 000
Telecommunications	4 000	5 000
Fundraising costs	1 800	3 500
Interest	19 600	21 500
Cleaning	1 900	3 000
Computer consumables	3 500	2 800
Conferences	1 500	1 500
Heat, light and power	4 000	5 000
Insurance	8 300	7 200
Travel	2 700	3 000
Staff amenities	2 400	1 800
Printing	4 500	2 400
Photocopying and stationery	5 900	2 200
Security	4 400	2 400
Repairs and maintenance	7 920	3 000
Postage and freight	2 400	1 200
Sundries	3 000	600
TOTAL EXPENDITURE	185,100	209,720
SURPLUS/DEFICIT	9,800	-2,000

ANNEXURE B

QUESTION 3

PHOTO OF A WOODEN FRAME WITH GLASS CENTRE PIECE

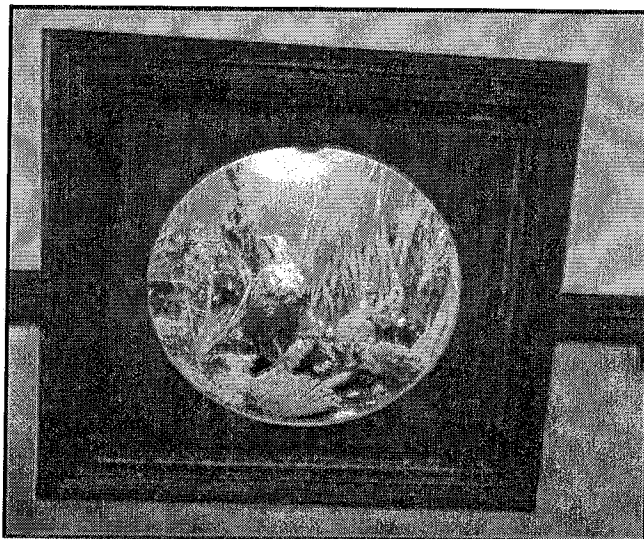
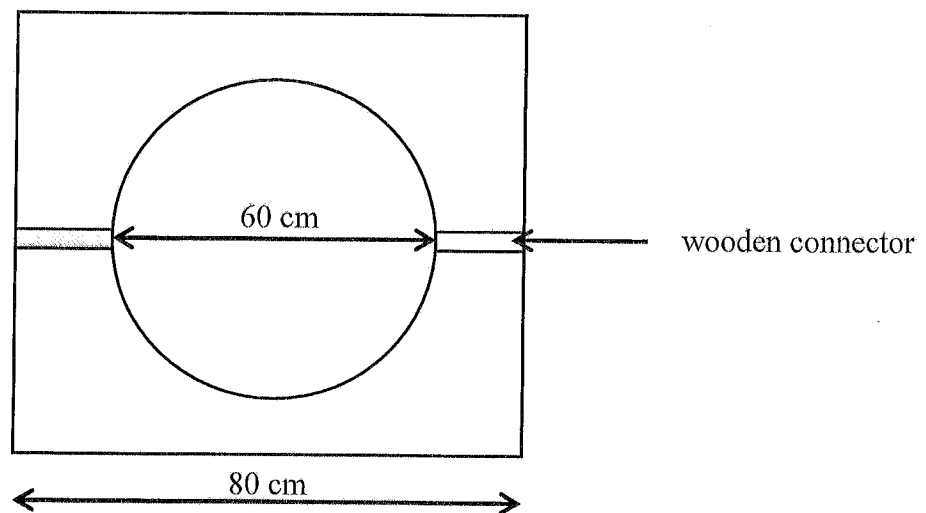
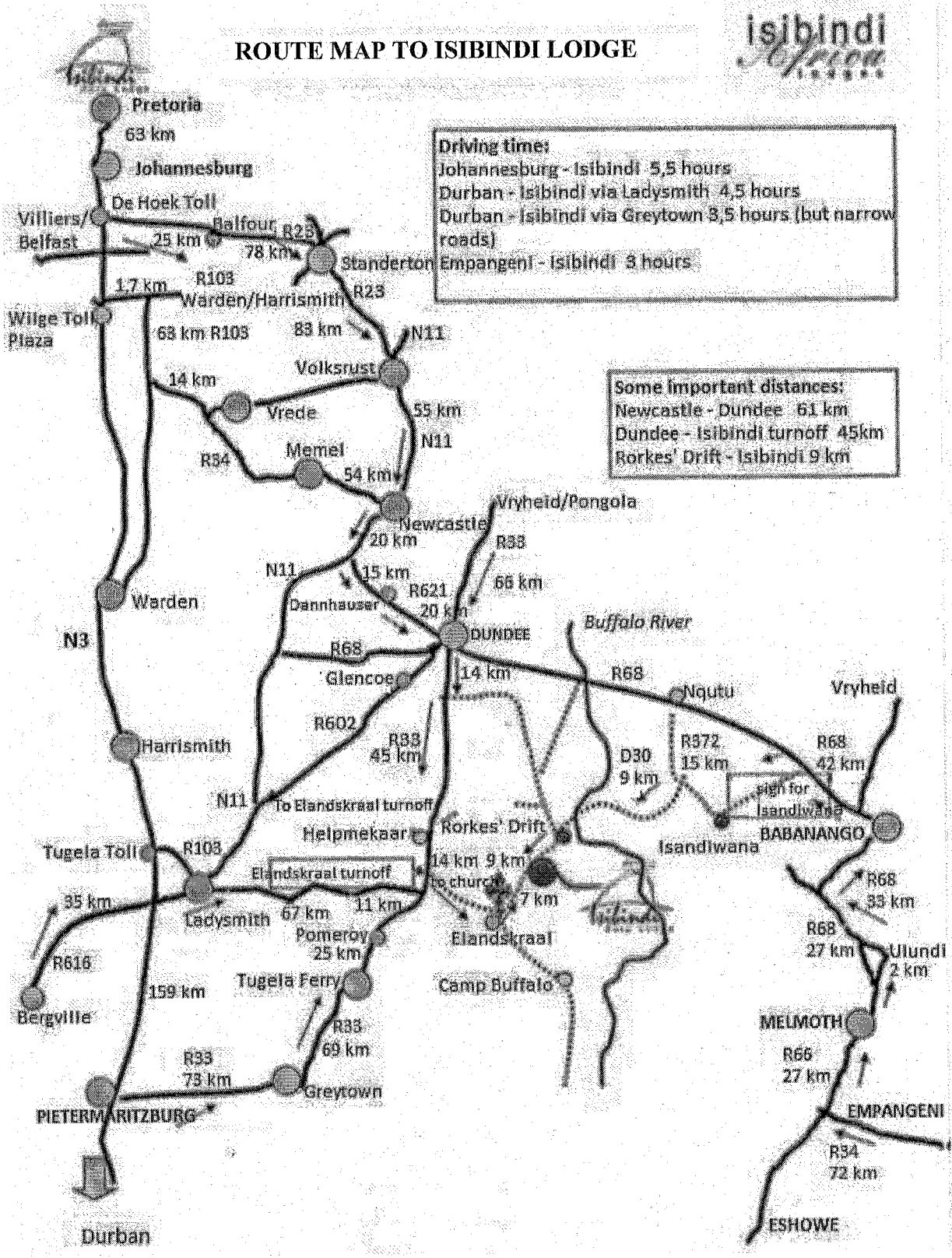


DIAGRAM OF A WOODEN FRAME WITH GLASS CENTRE PIECE



ANNEXURE C

QUESTION 4



Source: www.africamaps.com

ANNEXURE D

QUESTIONS 5.1, 5.2, 5.3, 5.4 AND 5.5

NUMBER OF ARRIVALS AND DEPARTURES OF SOUTH AFRICAN RESIDENTS AND FOREIGN TRAVELLERS BY YEAR OF TRAVEL 2009 TO 2014

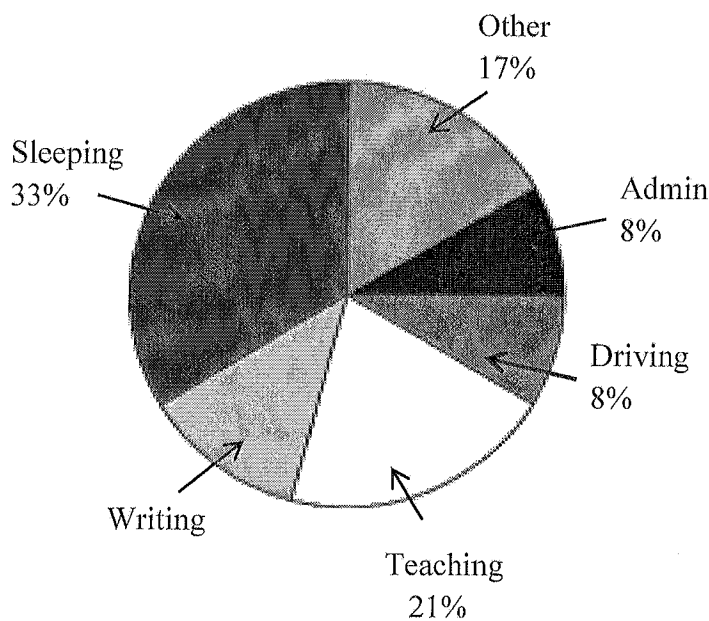
Years	Number of South African residents in '000			Number of foreign travellers in '000		
	Arrivals	Departures	Total	Arrivals	Departures	Total
2009	4 487	4 424	8 911	10 098	8 680	18 778
2010	5 125	5 165	10 290	11 575	9 909	21 484
2011	5 429	5 455	10 884	12 496	10 725	23 221
2012	4 971	5 031	10 002	13 796	11 494	25 290
2013	5 060	5 168	10 228	15 155	13 198	28 353
2014	5 312	5 382	10 694	15 092	13 743	28 835
TOTAL	30 384	A	61 009	78 212	67 749	145 961

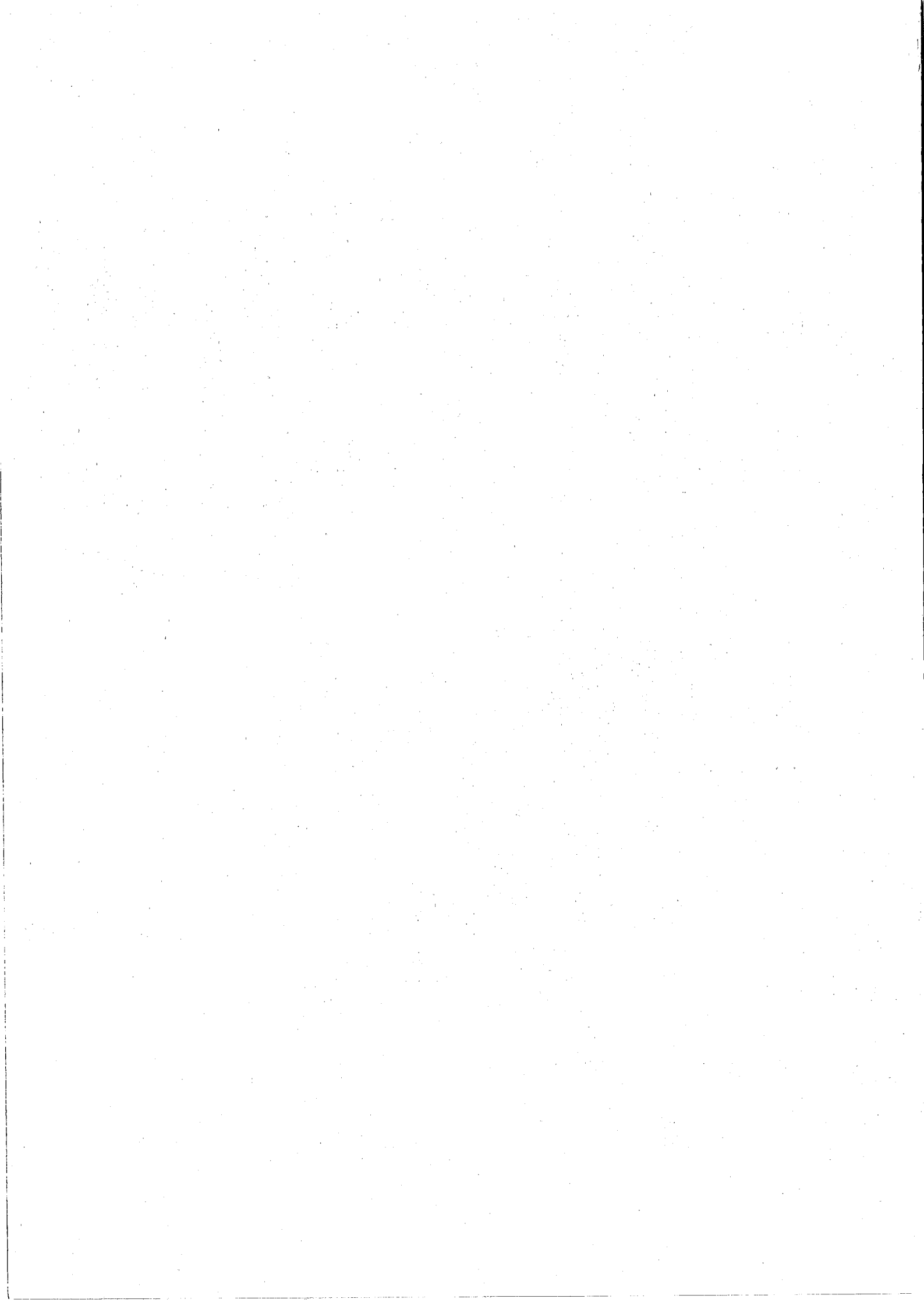
Source: www.statssa.gov.za

ANNEXURE E

QUESTIONS 5.6.1; 5.6.2 AND 5.6.3

**BREAKDOWN OF MR NGUBANE'S AVERAGE DAY
TOTAL: 24 HOURS**





QUESTION 4

4. Mr Leon and his family stay in Pietermaritzburg. During holidays they visited the heritage site in Isandlwana. They got accommodation at Isibindi Zulu lodge in Rorkes' Drift. ANNEXURE C shows the route map to Isibindi Zulu lodge.

NOTE: The arrows on the map show routes from different towns.

- 4.1 Calculate the shortest distance in kilometres from Pietermaritzburg to Isibindi Zulu lodge via Greytown. (2)
- 4.2 Give the name of the road they will use from Pietermaritzburg to Isibindi Zulu lodge via Greytown before they reach Elandskraal turn off. (2)
- 4.3 The distance from Johannesburg to Isibindi Zulu lodge is 435 km. Calculate the average speed at which they were driving if they took the maximum time.

You may use the following formula:

$$\text{Average Speed} = \frac{\text{Distance}}{\text{Time}} \quad (3)$$

- 4.4 The actual distance between Pietermaritzburg and Greytown is 73 km and on the map it is 4 cm. Determine the scale used. (3)
- 4.5 Give the name of the town where Leon can meet with his friend from Pongolo before they proceed to Isibindi Zulu Lodge. (2)
- 4.6 Name the river that runs next to Isibindi Zulu Lodge. (2)

[14]

QUESTION 5

5. Mr Ngubane teaches tourism and hands out investigation to his learners. Part of the investigation is shown in the table in ANNEXURE D.

Use the information above ANNEXURE D and ANNEXURE E to answer the following questions.

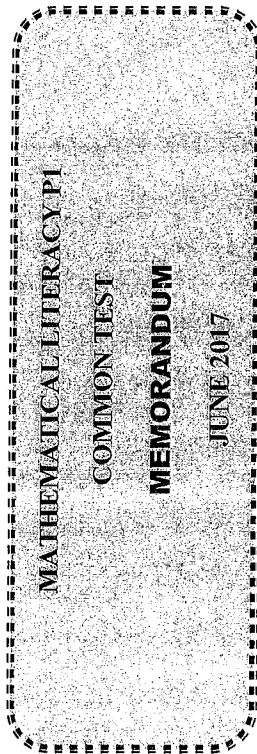
- 5.1 Calculate the missing value A. (2)
- 5.2 Write down the total number of arrivals in words for the South African residents from 2009 to 2014. (2)
- 5.3 Determine the year in which there was a greater number of departures for foreign travellers during the stated period. (2)
- 5.4 Calculate the mean number of departures for South African residents during the stated period. (3)
- 5.5 Calculate the range between the total numbers of totals for foreign travellers and South African residents during the stated period. (2)
- 5.6 Mr Ngubane spends an average weekday as shown in the pie chart in ANNEXURE E.
- 5.6.1 Calculate the percentage spent on writing by Mr Ngubane. Round the answer to the nearest whole number. (3)
- 5.6.2 Calculate the number of hours spent on teaching by Mr Ngubane. Round the answer to the nearest whole number. (3)
- 5.6.3 On which activity does Mr Ngubane spend most of his time in a day? (2)

[19]**TOTAL MARKS: 100**



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MARKS: 100

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RGRD/RM	Reading from a table/ graph/ diagram/Map
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example
J	Justification
R	Rounding off
F	deriving a formula
E	Explanation
AO	Answer only full marks
P	Penalty e.g for units, incorrect rounding off etc.
NPR	No penalty for rounding / units

This memorandum consists of 10 pages.

QUESTION 1 [31 MARKS]

Ques	Solution	Explanation	T & L
1.1	UIF = 1% × R6 500,00 ✓M = R65,00 ✓A	IM Multiplying by 1% or 0,01 1A Answer AO (2)	F L1 (2)
1.2	Commission = R125,00 × 43 ✓M = R5 375,00 ✓A	IM Multiplication 1A Answer AO (2)	F L1 (2)
1.3	Total income = R6 500,00 + R5 375,00 ✓M = R11 875,00 ✓CA	IM Adding ICA Answer AO (2)	F L1 (2)
1.4	Total deductions = R65,00 + R415,00 ✓M = R480,00 ✓A	IM Adding 1A Answer AO (2)	F L1 (2)
1.5	Net salary = R11 875,00 – R480,00 ✓M = R11 395,00 ✓CA	IM Subtraction ICA Answer AO (2)	F L1 (2)
1.6 1.6.1	P (20 black cellphones) = $\frac{20 \checkmark A}{43 \checkmark A}$ OR P (20 black cellphones) = 0.47 ✓✓A OR P (20 black cellphones) = 46.51% ✓✓A	1A Numerator 1A Denominator OR 2A Correct decimal fraction OR 2A Correct percentage (2)	P L1
1.6.2	P (not red) = $\frac{35 \checkmark A}{43 \checkmark A} \times 100 \%$ = 81,4% ✓CA	1A Numerator 1A Denominator ICA Answer AO (3)	P L1 (3)
1.7 1.7.1	Number of kg = $\frac{R209,98 \checkmark M}{R83,99}$ = 2,5 ✓A	IM Dividing by R83,99 1A Answer AO (2)	M L1 (2)

1.7.2	Volume of a rectangular prism = length × width × height = 35 cm × 17 cm × 15 cm ✓SF = 8 925 cm ³ ✓A	1SF Correct substitution 1A Answer (2) 2A Answer (2)	M L1
1.8.1	67; 54; 53; 49; 48; 47; 46; 45; 44; 35; 33; 32; 28 ✓✓A	2A Answer (2)	DH L1
1.8.2 (a)	Median = 30 ✓✓A	2A Answer (2)	DH L1
(b)	Mode = 26 and 40 ✓✓A	2A Answer (2) If ONE value given: Max. 1 mark	DH L1
1.9 (a)	Total cost of company A = R200 + R13 × 50 km ✓M = R850 ✓A	1M Addition/multiplication 1A Answer (2)	F L2
(b)	Total cost of company B = R21 × 50 km ✓M = R1 050 ✓A	1M Addition/multiplication 1A Answer (2)	F L2
(c)	Company A is the cheapest ✓✓O	2O Opinion (2)	F L1
			31

QUESTION 2 [20 MARKS]			
2.1	Total income = R177 000,00 + R5 000,00 + R6 000,00 + R8 000,00 + R6 000,00 + R3 720,00 + R2 000,00 ✓M = R207 720,00 ✓CA	1M Adding values 1CA Answer AO (2)	F L2
2.2	Grants – State Government ✓✓A	2A Answer (2)	F L1
2.3	events : grants R4 000,00 : R160 000,00 ✓RT 1 : 40 ✓S	1RT Reading from the table 1S Simplification AO (2)	F L1
2.4	Expenditure on salaries = R185 100 – (R8 280 + R7 000 + R4 000 + R1 800 + R19 600 + R1 900 + R3 500 + R1 500 + R4 000 + R8 300 + R2 700 + R2 400 + R4 500 + R5 900 + R4 400 + R7 920 + R2 400 + R3 000) ✓M = R92 000 ✓CA	1M Subtracting values 1CA Answer AO (3)	F L2
2.5	Percentage = $\frac{R128000}{R209720} \times 100\%$ ✓M = 61,0337593 ✓A = 61% ✓R	1M Percentage concept 1A Answer 1R Rounding AO (3)	F L2

2.6	Deficit means that the expenditure is more than the income. ✓✓E OR The income is less than the expenditure ✓✓E OR Deficit means that there is a loss of R2 000 ✓✓E OR There is a shortfall of R2 000 ✓✓E	2E Explanation (2)	F L1
2.7	2016 ✓✓A	2A Answer (2)	F L1
2.8	Conferences ✓✓A	2A Answer (2)	F L1
2.9	Decrease = R18 000 – R3 000 ✓M = R10 000 ✓A	IM Subtraction 1A Answer AO (2)	F L1
			[20]

QUESTION 3 [16 MARKS]			
3.1	Area of a circle = πr^2 = $3,142 \times (30 \text{ cm})^2$ ✓SF = $2\,827,80 \text{ cm}^2$ ✓CA	1SF Correct substitution ICA Answer (2)	M L2
3.2	Area of the wooden frame = side \times side = $80 \text{ cm} \times 80 \text{ cm}$ ✓SF = $6\,400 \text{ cm}^2$ ✓A ✓MA Area of the wooden part = $6\,400 \text{ cm}^2 - 2\,827,80 \text{ cm}^2$ = $3\,572,20 \text{ cm}^2$ ✓CA	1SF Correct substitution 1A Answer 1MA Subtracting correct values ICA Answer (4)	M L2
3.3	Area to be painted = $6 \times 3\,572,20 \text{ cm}^2$ ✓MA = $21\,433,20 \text{ cm}^2$ ✓S $100 \text{ ml} = 3,5 \text{ cm}^2$ $\text{ml} = 214\,33,2 \text{ cm}^2$ Number of ml of paint = $\frac{21\,433,2 \times 100}{3,5}$ ✓M $\text{ml} = 612\,377$ ✓CA OR Area to be painted = $6 \times 3\,572,20 \text{ cm}^2$ ✓MA = $21\,433,20 \text{ cm}^2$ ✓S $1 \text{ ml} = 0,035 \text{ cm}^2$ ✓C Number of ml of paint = $\frac{21\,433,20 \text{ cm}^2}{0,035 \text{ cm}}$ ✓M $\text{ml} = 612\,377$ ✓CA	1MA Multiplying area by 6 ICA Answer 1M Multiplying by 100 1M Dividing by 3,5 ICA Answer OR 1M Multiplying area by 6 ICA Answer 1C Dividing $3,5 \text{ cm}^2$ by 100 1M Dividing by 0,035 ICA Answer (5)	M L3
3.4	length of two side walls = $(20 \text{ m} \times 2) \times 100$ ✓C = $4\,000 \text{ cm}$ ✓CA	1M Multiplying by 2 1C Converting m to cm ICA Answer	

length of wooden connectors = $4\ 000\text{cm} - (6 \times 80\text{ cm}) \checkmark\text{M}$ = $3\ 520\text{ cm} \checkmark\text{CA}$ OR length of one side wall = $20\text{ m} \times 100 \checkmark\text{C}$ = $2\ 000\text{ cm} \checkmark\text{CA}$ = $2\ 000\text{ cm} - (3 \times 80\text{ cm}) \checkmark\text{M}$ = $1\ 760\text{ cm} \times 2 \checkmark\text{M}$ length of wooden connectors = $3\ 520\text{ cm} \checkmark\text{CA}$	<p>1M Subtracting the length of 6 frames ICA Answer</p> <p>IC Converting m to cm ICA Answer 1M Subtracting the length of 3 frames 1M Multiplying by 2 ICA Answer</p>	M L2
		16

QUESTION 4 [14 MARKS]		
4.1	Distance from Pietermaritzburg = $73\text{ km} + 69\text{ km} + 25\text{ km} + 11\text{ km} + 14\text{ km} + 7\text{ km} \checkmark\text{M}$ = $199\text{ km} \checkmark\text{A}$	<p>1M Adding distances 1A Answer ACCEPT: 185 km AO</p> <p>(2)</p>
4.2	R33 $\checkmark\checkmark\text{RM}$	<p>2RM Reading from the map</p> <p>(2)</p>
4.3	<p>Average Speed = $\frac{\text{Distance}}{\text{Time}}$</p> <p>= $\frac{435\text{ km} \checkmark\text{SF}}{5,5\text{ hours} \checkmark\text{RM}}$</p> <p>= $79,09\text{ km/h} \checkmark\text{CA}$</p>	<p>1SF Correct substitution 1RM Reading 5,5 hours from the map</p> <p>1CA Answer</p> <p>(3)</p>
4.4	<p>4 cm : 73 km</p> <p>4 cm : 73 km $\times 100\ 000 \checkmark\text{C}$</p> <p>$\frac{4\text{ cm}}{4} = \frac{7\ 300\ 000\text{ cm} \checkmark\text{M}}{4}$</p> <p>1 : 1 825 000 $\checkmark\text{A}$</p> <p>OR</p> <p>4 cm : 73 km</p> <p>4 cm $\div 100\ 000 \checkmark\text{C}$: 73 km</p> <p>$\frac{0,0004\text{ km}}{0,00004} = \frac{73\text{ km}}{0,00004} \checkmark\text{M}$</p> <p>1 : 1 825 000 $\checkmark\text{A}$</p>	<p>1C Converting km to cm 1M Dividing by 4 1A Answer</p> <p>1C Converting cm to km 1M Dividing by 0,00004 1A Answer</p> <p>(3)</p>
4.5	Dumdee $\checkmark\checkmark\text{A}$	<p>2A Answer ACCEPT: Greytown or Tugela Ferry or Pomeroy or Helpmekeer or Elandskraal.</p>
4.6	Buffalo river $\checkmark\checkmark\text{A}$	<p>2A Answer</p> <p>(2)</p>
		14

QUESTION 5 [19 MARKS]		DH L1
5.1	$A = 4\,424 + 5\,165 + 5\,455 + 5\,031 + 5\,168 + 5\,382$ $= 30\,625 \checkmark A$ <p style="text-align: center;">OR</p> $A = 61\,009 - 30\,384 \checkmark MA$ $= 30\,625 \checkmark A$	1MA Adding correct values 1A Answer OR 1MA Subtracting correct values 1A Answer AO (2) 2A Answer (2)
5.2	Thirty million three hundred and eighty four thousand $= 30\,625 \checkmark A$	2A Answer (2) DH L1 (2)
5.3	2014 $\checkmark \checkmark A$	2A Answer (2) DH L1 (2)
5.4	$\text{Mean} = \frac{30\,625 \checkmark MA}{6 \checkmark M \checkmark M}$ $= 5\,104.17$ $= 5\,105 \checkmark CA$	1MA Adding correct values 1M Dividing by 6 1CA Answer ACCEPT : 5 104 AO (3)
5.5	$\text{Difference} = 145\,961 - 61\,009 \checkmark M$ $= 84\,952 \checkmark A$	1M Subtraction 1A Answer AO (2)
5.6 5.6.1	$\% \text{ writing} = 100\% - (33\% + 17\% + 8\% + 8\% + 21\%)$ $= 13\% \checkmark A$ <p style="text-align: center;">OR</p> $\% \text{ writing} = 100\% - 87\%$ $= 13\% \checkmark A$	1M % concept 1M Adding 1A Answer OR 1M Subtraction 1M Adding percentages AO (3)

5.6.2	$\text{Number of teaching hours} = \frac{21}{100} \times 24 \checkmark M$ $= 5,04 \checkmark A$ $\approx 5 \checkmark R$	1M Multiplying by 24 1A Answer 1R Rounding AO (3)	DH L2
5.6.3	Sleeping $\checkmark \checkmark A$	2A Answer (2)	DH L1
			[19]

TOTAL MARKS: 100

