

2 Downloaded from Stanmorephysics.com

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 1.3

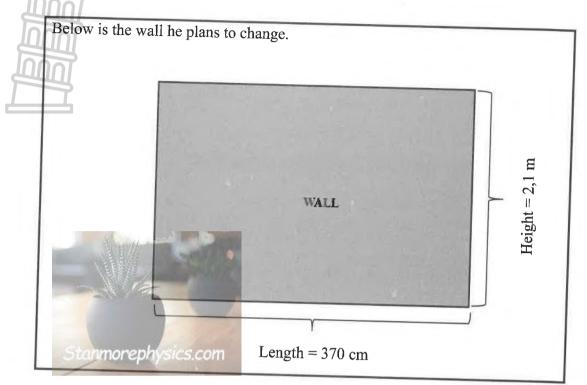
- ANNEXURE B for QUESTION 2.2
- 3. Number the answers correctly according to the numbering system used in this question paper.
- 4. Start EACH question on a NEW page.
- 5. You may use an approved calculator (non-programmable and non-graphical), unless stated otherwise.
- 6. Show ALL calculations clearly.
- 7. Round off ALL final answers appropriately according to the given context, unless stated otherwise.
- 8. Indicate units of measurement, where applicable.
- 9. Maps and diagrams are NOT necessarily drawn to scale, unless stated otherwise.
- 10. Write neatly and legibly.



Downloaded from StanMoreMATUSIESITERACY P2

QUESTION 1

1.1 Uncle James bought a house and decided to do some renovations to the lounge area. He plans to change the one of the walls in this room.



Use the information above to answer the questions that follow.

- 1.1.1 Define the term *perimeter*.
- 1.1.2 Convert the length of the wall to metres.
- 1.1.3 Calculate the perimeter of the wall.

You may use the formula: P = length + length + height + height (2)

1.2 Jameson will win a club cycling trophy if he is able to log at least 600 km of cycling distance in a seven-month period. He cycles as follows:
The Vineyard Race in February (75 miles)
The Ocean-to-Ocean Race in March (114,3 km)

- The Karoo Fun Race in April (271 km) and
- The Charity Fun Sprint (148,1 km) was his last participation in June.

NOTE: 1 km = 0,6214 miles

- 1.2.1 Calculate, in km, the distance he cycled in the Vineyard Race.
- 1.2.2 Hence, determine the total distance logged by Jameson throughout the period. Give your answer in kilometre (km).

(2)

(2)

(2)

(2)

Copyright reserved

(EC/JUNE 2024)

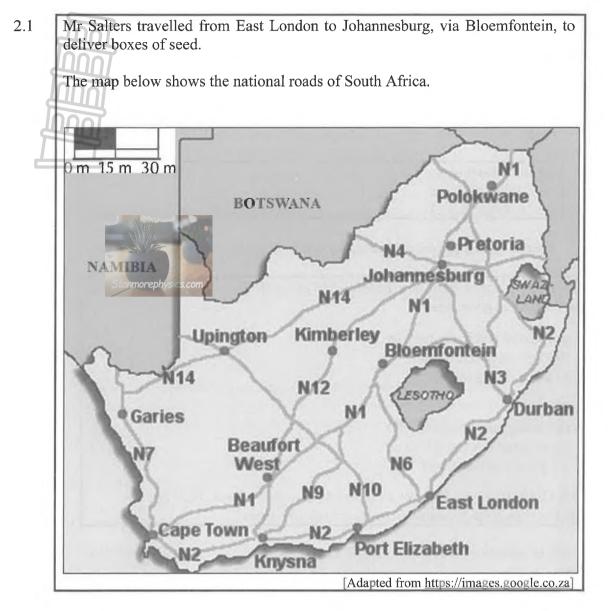
4 Downloaded from StandarepHysics.com

The rout	e map of the Medihelp Stellenbosch Cycle tour is shown in
ANNEX	URE A.
Use AN	NEXURE A to answer the questions that follow.
طلل	Name ONE town that is situated directly on the route.
1.3.2	How many water points are available on the Medihelp Stellenbosch Cycle tour?
1.3.3	Which national road crosses the route?
1.3.4	In which general direction is Stellenbosch from Pniel?
1.3.5	Identify the mountain pass situated on the route.

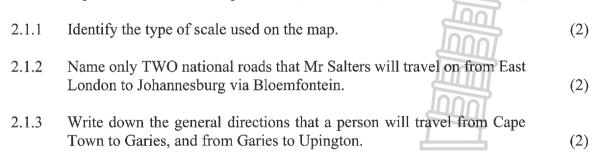


(ECDINE 2024) aded from Stamberephysics. com P2

QUESTION 2



Use the map above to answer the questions that follow.



Downloaded from ASHSMAT

Mr Salters' wife wishes to visit Walvis Bay in Namibia during the 2.1.4 December holidays. Mr Salters comments that she would need a passport to go to Walvis Bay.

Give a reason why his wife will need a passport to visit Walvis Bay. (2)

The fuel tank of Mr Salters' vehicle has a capacity of 75 litres. He claims that it will cost him 4% more if he fills his car inland, instead of at the coast.

NO	TE: Fuel cost:	
\triangleright	Inland: R22,49	
\triangleright	Coastal: R21,77	[Source: <u>AA Petrol price January 2024]</u>

Verify, with the necessary calculations, whether his claim is valid or not.

(5)

(2)

(2)

The Kruger National Park is a popular tourist destination. Some information about the park is given below: The speed limit inside the park is:

50 km/h on tarred roads

40 km/h on gravel roads

Gate times:

2.1.5

2.2

- Entrance gates open at 05:30
- Camp gates open at 04:30
- All gates close at 18:30

ANNEXURE B shows a part of a map of the Kruger National Park and TABLE 2 shows the distances between camps and gates.

Use the information above and ANNEXURE B to answer the questions that follow.

- Give ONE possible reason why there are specific times for the opening 2.2.1 and closing of gates at the park.
- Determine the difference in the number of main camps and other camps 2.2.2 on this part of the map.
- If Odwa leaves Skukuza at 17:15 and leaves the park through the Numbi 2.2.3 Gate, determine the time that he will reach the Numbi Gate.

The following formula may be used:

 $Distance = speed \times time$

NOTE:	The distance on the gravel road is the same as the distance on	
	the tarred road.	(5)

Give a possible reason why most people visiting the park prefer to travel 2.2.4 on the gravel roads, instead of the tarred roads.

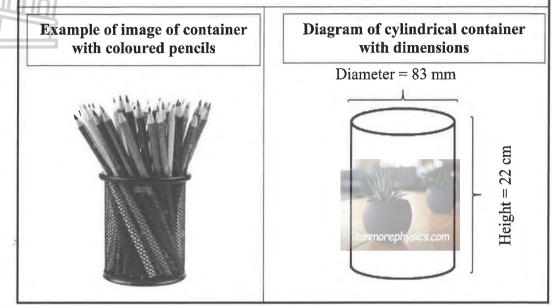
(2)

[24]

(EC/BINE 2020 added from St MATHEMATICAL LITERACY P2

QUESTION 3

3.1 In a Mathematical Literacy classroom, a teacher keeps coloured pencils in three identical cylindrical containers. These pencils remain in the containers until they are used or lost. Below is an example of an image of the container with the coloured pencils and the diagram of the cylindrical container. (Diagram NOT drawn to scale.)



- 3.1.1 The diameter of one of the coloured pencils is 6 mm and the length is 16,7 cm. Verify, with the necessary calculations, that 39 coloured pencils can fit into THREE of the cylindrical containers.
- 3.1.2 The teacher packs some of the coloured pencils as follows in each of the containers: 3 pink, 2 black, 2 purple and 3 orange pencils. Calculate the probability that if a coloured pencil is taken from ALL the containers, it will be a purple pencil. Give your final answer to THREE decimal places.



7

(9)

(3)

8 **Downloaded from Stanmorephysics. com**

3.2 Invitation cards for a party are in a rectangular shape, with a circular photo of the birthday girl in the middle of the invitation card. An example of the invitation card is given below and a diagram with dimensions.

Example of image of invitation without photo	Diagram of invitation card with dimensions
	120 mm

3.2.1 (a) Calculate the area of the rectangular invitation card to the nearest mm^2 .

You may use the following formula:	
Area of a rectangle = length × width	(3)

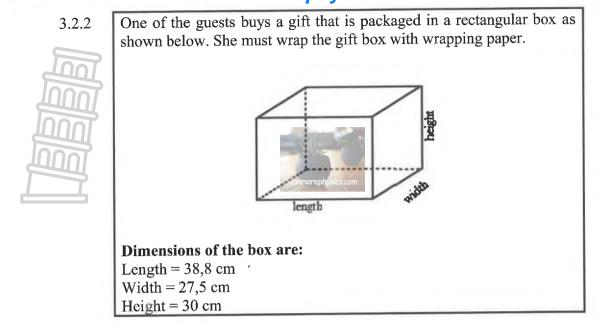
(b) Hence, calculate the area of the rectangular invitation card without the photo to the nearest mm^2 .

You may use the following formula: **Area of circle** = $\pi \times \text{radius}^2$. Use $\pi = 3,142$ (4)



54

(EC/DOM/Hoaded from Stanmorephysics. com



Calculate the total surface area in cm^2 of the paper that is needed to wrap the gift box.

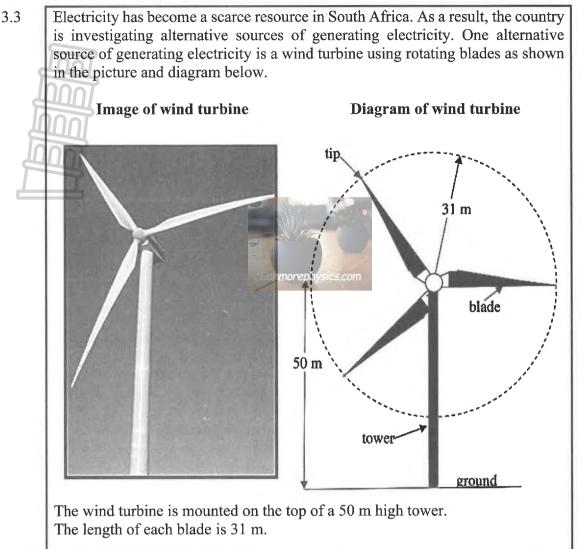
You may use the following formula:

```
Total Surface Area of gift box = 2 (length × width) +
2 (width × height) + 2 (length × height)
```

(4)



¹⁰ Downloaded from Stanmorephysics.com



- 3.3.1 Determine the length of the diameter of the circle that the blades create as they rotate.
- 3.3.2 Calculate the maximum height from the ground to the tip of a blade if the turbine is rotating.
- 3.3.3 Calculate the circumference of the circle made by the blades when it rotates twice.

You may use the following formula:

Circumference = $2 \times \pi \times$ radius, using $\pi = 3,142$

3.3.4 Suppose each household requires 25 kWh of electricity daily.

If one wind turbine produces 1 750 kWh of electricity daily, calculate how many households could be provided with electricity daily from one such turbine.

(2)

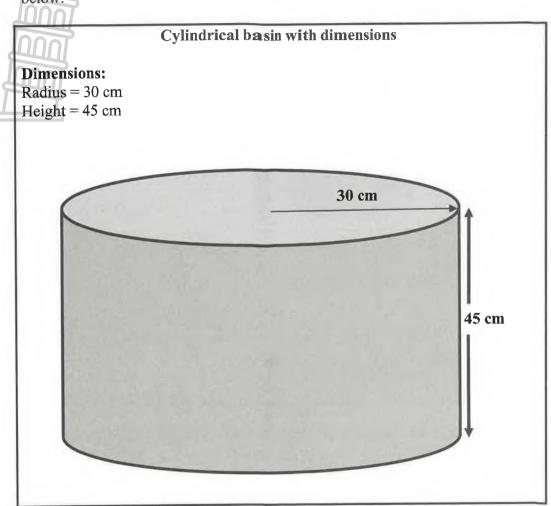
(2)

(2)

(2)

(EC/DEWADaded from StMATHEMAEKASICE COMP2

3.4 Sandra washes her dishes by hand three times daily in TWO identical cylindrical basins. She uses one basin for washing the dishes and the other for rinsing it. Each basin has a radius of 30 cm and a depth of 45 cm, as shown in the diagram below.



Sandra fills each basin to three quarters $(\frac{3}{4})$ of its capacity whenever she washes or rinses the dishes.

Calculate how much water (in litres) she will use daily to wash and rinse dishes by hand. (NOTE: 1 000 $\text{cm}^3 = 1$ litre)

You may use the following formula: Volume = $\pi \times r^2 \times h$, use $\pi = 3,142$



12 Downloaded from Stanmorephysics.com

QUESTION 4

4.1 Mr and Mrs Thana went shopping in Phuket, Thailand on Friday and checked into a hotel afterwards at 15:30. They departed from the hotel the following Tuesday at 10:00. They bought a small cylindrical gift box for their daughter to keep her earrings and hair accessories in, as shown below.
Image: The state of the state o

- 4.1.1 Verify, with the necessary calculations that the total number of hours that Mr and Mrs Thana stayed in the hotel was less than 90 hours.
- 4.1.2 The volume of their daughter's cylindrical gift box is 1571 cm^3 with a diameter of 10 cm. Calculate the height of the cylindrical gift box. (4)
- 4.1.3 The top and the bottom of the cylindrical gift box is made of a special type of wood that costs $R144,65/m^2$. Calculate the total cost of the wood to make the top and the bottom of the cylindrical gift box, if the area of the top is 78,55 cm².

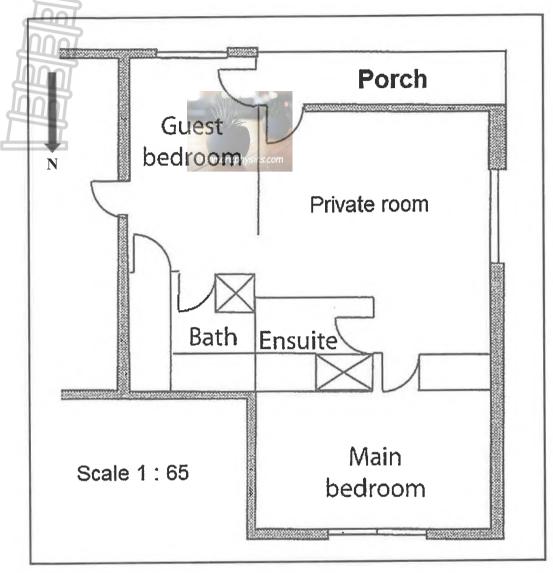


(5)

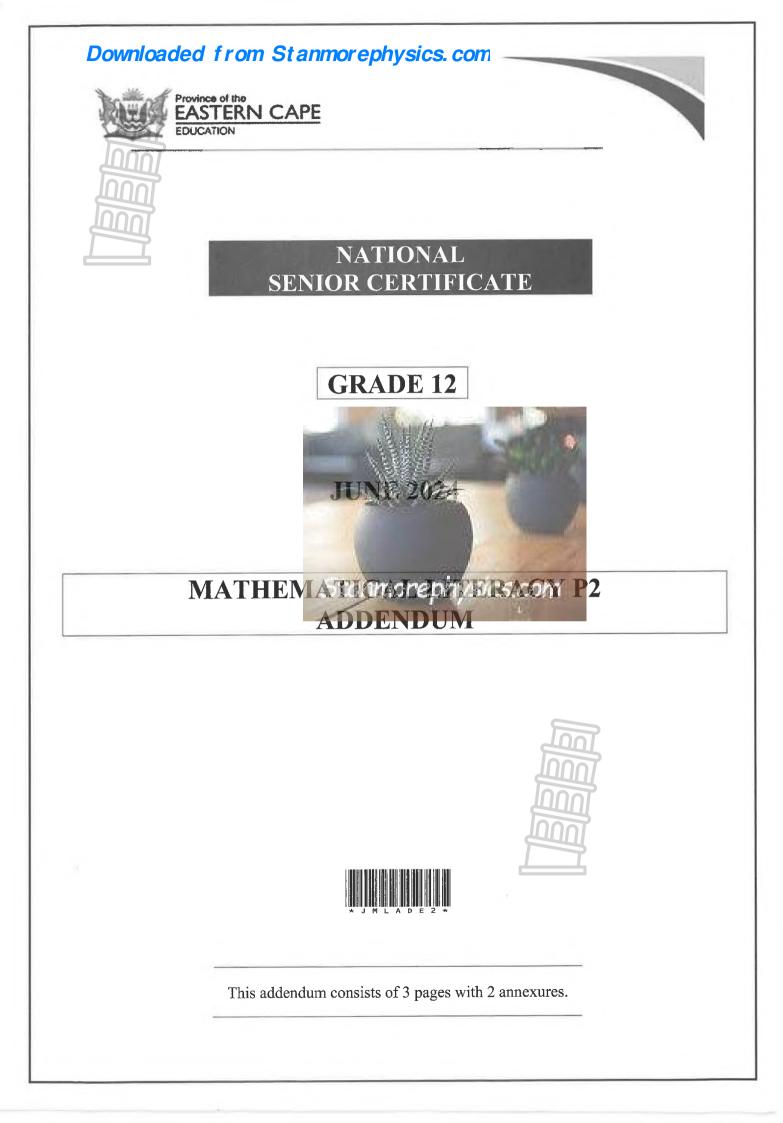
(5)

(EC/DNEWHOaded from StMATHEMetical Stress Content

4.2 Ms Harker asked a builder to draw a scale drawing of a proposed renovation to her house. The floor plan of the proposed renovation is shown below.



4.2.1 The measured length of the main bedroom is 3,4 cm. Use the given scale to calculate the actual length of the main bedroom. (2)
4.2.2 What is the probability of selecting a door that opens to the eastern side? (2)
4.2.3 Given that the house is situated in South Africa, explain which room you think will get the most sun. (2)
[20] TOTAL: 100

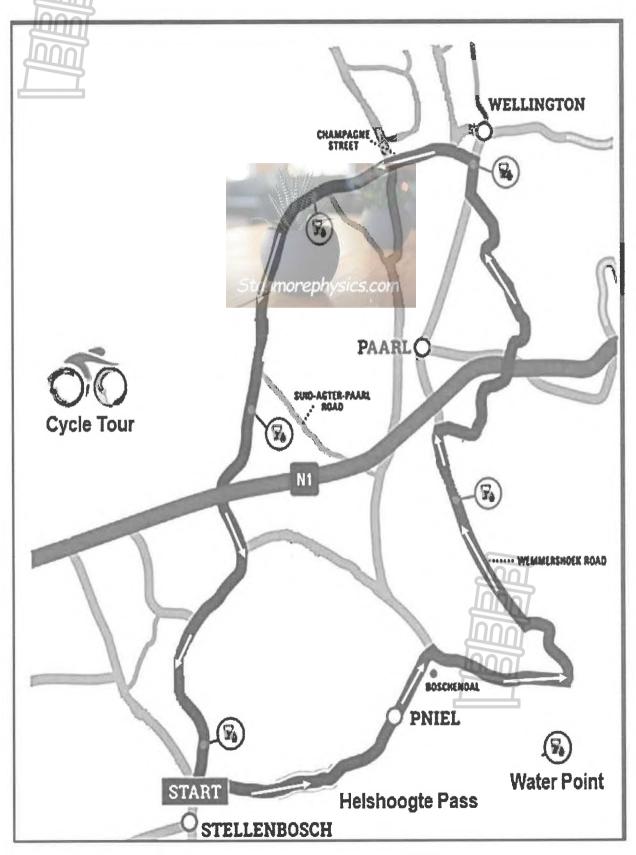


² Downloaded from Standorephysics. com

ANNEXURE A

QUESTION 1.3

THE ROUTE MAP OF THE MEDIHELP STELLENBOSCH CYCLE TOUR



ANNEXURE B

QUESTION 2.2

PART OF THE MAP OF THE KRUGER NATIONAL PARK

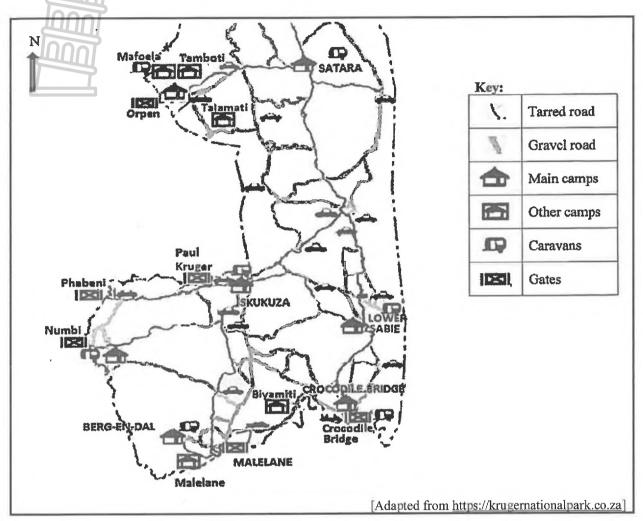


TABLE 2

Distances in kilometres between some of the camps and gates in the Kruger National Park

Gates and camp distances		Berg-en-dal	Lower Sabie	Malelane	Numbi Gate	Orpen	Satara	Skukuza
Berg-en-dal		Souther	113	12	97	213	165	172
Lower Sabie	-	113		105	95	141	93	43
Malelane	-	12 / 2	105	-	94	204	156	64
Numbi Gate		97	95	94	-	195	147	54
Orpen		213	141	204	195	-	48	137
Satara	St	nn165ept	vsi93.cor	n 156	147	48	-	84
Skukuza	1	172	43	64	54	137	84	-

Copyright reserved

Downloaded from Stanmorephysics.com Province of the EASTERN CAPE EDUCATION NATIONAL SENIOR CERTIFICATE **GRADE 12 JUNE 2024** MATHEMATICAL LITERACY P2 **MARKING GUIDELINE** Stanmorephysics.com MARKS: 100 Symbol **Explanation** Method Μ M/A Method with accuracy CA Consistent accuracy Accuracy А С Conversion S Simplification RT/RG/RD/RM Reading from a table/graph/diagram/map Correct substitution in a formula SF 0 Opinion/Explanation//Reasoning Penalty, e.g. for no units, incorrect rounding off etc. Р R Rounding off NPR No penalty for rounding AO Answer only MCA Method with consistent accuracy RCA Rounding consistent with accuracy

This marking guideline consists of 10 pages.

MARKING GUIDELINES

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 incorrect item presented.



	O TOPIC SYMBOL:	on nonnoontotion of D - Duch ak	1:4
$\mathbf{F} = \mathbf{F} \mathbf{I} \mathbf{n}$	ance; M = Measurement; MP = Maps, plans and oth	er representations; P = Probab	inty
OUEST	TION 1 [20 MARKS]	ANSWER ONLY FULL	MARKS
<u><u> </u></u>			
Ques.	Solution	Explanation	Level
1.1.1	The perimeter of a shape is the total distance around the edges defining the outline of that shape. $\checkmark \checkmark A$ OR	2A correct explanation	M L1
	Total distance around the shape. $\checkmark \checkmark A$	(2)	
1.1.2	Length of wall = $\frac{370}{100} \checkmark C$ = 3,7 m $\checkmark A$	1C convert cm to m 1A correct answer (2)	M L1
1.1.3	$P = \text{length} + \text{length} + \text{height} + \text{height}$ $= 3,7 + 3,7 + 2,1 + 2,1 \checkmark M$ $= 11,6 \text{ m} \checkmark CA$	CA from 1.1.2 1M adding correct values 1CA correct answer from 1.1.2 (2)	M L1
1.2.1	Distance cycled = $\frac{75}{0,6214}$ \checkmark MA = 120,6952044 \approx 120,7 km \checkmark A Accept: 121 km / 120,695 km	1MA dividing correct values 1A correct answer NPR (2)	M L1
1.2.2	Total distance logged: = 120,7 km + 114,3 km + 271 km + 148,1 km √M = 654,1 km √CA Accept 654,4 km / 654,095	CA from 1.2.1 1M adding correct values 1CA correct answer (2)	M L1
1.3.1	Pniel $\checkmark \checkmark RT$	2RT reading from map (2)	MP L1
1.3.2	5 water points $\checkmark \checkmark RT$	2RT correct answer (2)	MP L1
1.3.3	N1 ✓✓RT	2RT correct answer (2)	MP L1
1.3.4	SW or Southwest $\checkmark \checkmark RT$	2RT correct direction (2)	MP L1
1.3.5	Helshoogte Pass ✓ ✓ RT	2RT correct answer (2)	MP L1
		[20]	

4 Downloaded f mom Stanmore physics 2 com

QUEST	TION 2 [24 MARKS]		
Ques.	Solution	Explanation	Level
2.1.1	Bar Scale ✓✓A OR Linear Scale ✓✓A OR Graphic ✓✓A Scale	2A identifying correct scale (2)	MP L1
2.1.2	N6 ✓ RT and N1 ✓ RT	1RT first national road 1RT second national road Accept any order (2)	MP L1
2.1.3	North $\checkmark A$ North East OR NE $\checkmark A$	1A first direction 1A second direction (2)	MP L2
2.1.4	His wife will be crossing the border between two countries and therefore needs a passport. $\checkmark \checkmark O$	20 opinion	MP L4
	OR		
	His wife will enter another country. $\checkmark \checkmark O$	(2)	
2.1.5	$\% \text{ difference} = \frac{\frac{\sqrt{M}}{R22,49 - R21,77}}{\frac{R}{R21,77} \sqrt{A}} \times 100\% \sqrt{M}$ $= 3,307\% \sqrt{CA}$ Statement is invalid – it will cost less than 4% \sqrt{O}	1M subtracting correct values 1M multiplying with 100% 1A correct denominator 1CA simplification 1O opinion	F L4
	Standard Provide Provide Standard Prov	OR 1M subtracting correct values 1M multiplying with 100%	
	$= 3,307\% \checkmark CA$ Statement is invalid – it will cost less than 4%. $\checkmark O$	1A correct denominator 1CA simplification 10 opinion (5)	

Copyright reserved

			1	
2.2.1	Staff working at the gates need to go	b home. $\checkmark \checkmark O$	20 reason	MP
	OR OR			L4
	The wild animals in the park make i	t unsafe to travel or		
	be in unprotected parts during the ni			
		C		
	OR OR			
	Animals are not visible in the dark,			
C	when people can see the animals. \checkmark	٧U		
	OR			
	Access control $\checkmark \checkmark \bigcirc$			
	OR			
	To avoid overcrowding $\checkmark \checkmark O$			
	OR			
	Security reasons $\checkmark \checkmark O$			
	OR			
	So that people travelling from far or	within the Kruger		
	National Park, can plan ahead. $\checkmark \checkmark O$)		
	OR	(2)		
	Accept any other valid reason.			
	recept any other varia reason.			
2.2.2	Other camps = 5		1RT number of both camps	MP
	Main camps = $7 \checkmark RT$		_	L2
			1CA difference with 1	
	Difference = $7 - 5 = 2 \checkmark CA$		correct camp	
			AO (2)	
2.2.3	Distance = speed × time			MP
2.2.5	✓RT		1RT distance	L3
	$54 \text{ km} = 50 \text{ km/h} \times \text{time} \checkmark \text{SF}$		1SF substitution with 50	
		If calculated as	km/h	
	Time on gravel road	follows do not		
	$=\frac{54 \text{ km}}{50 \text{ km/h}} \checkmark \text{S}$	penalise.	15 abongo the formula	
	= 1,08 h	·	1S change the formula	
	$=$ 1h 4 min 48 sec \checkmark C	1h05min	1C converting time	
	Time he will arrive at the gate is:	17:15 + 1h05min		
	17:15 + 1:4:48	= 18:20	1CA arrival time	
	= 18:19:48 ✓CA		(5)	
1				

6 Downloaded f Kom Stanmore physics 2 com

2.2.4	The roads are not so busy / people drive slower / more animals are	20 reason	MP
2.2.4		20 1645011	L4
	visible. ✓ ✓ O		L4
	OR		
9			
	It is the scenic route. $\checkmark \checkmark O$		
Ľ ď	OR OR		
	To experience a sense of adventure. $\checkmark \checkmark O$		
	OB		
	OR		
	Crowal reads size you man assass (short out) to different rorts of		
	Gravel roads give you more access (short cut) to different parts of		
	the park. $\checkmark \checkmark O$		
	OR		
	OR		
	The route blands in with notice and sives a more outparties		
	The route blends in with nature and gives a more authentic		
	bushveld experience. $\checkmark \checkmark O$		
	OD		
	OR		
	A 41		
	Accept any other reasonable answer.	(2)	
		[24]	



Ques.	Solution	Explanation	Level
3.1.1	Number of coloured pencils across	1M dividing diameters	M
	$= 83 \div 6 \checkmark M$	1CA simplification	L4
	$= 13,833333\sqrt{CA}$	1R number of pencils	
	\approx 13 pencils \checkmark R	1	
	Number of coloured pencils down		
1	$= 22 \div 16,7 \checkmark M$	1M dividing heights	
	= 1,317365269	1R number of pencils	
	$\approx 1 \text{ pencil } \sqrt{R}$		
	Total number of pencils in one container		
Stan	no13ph1sics.com	1CA number of pencils	
/	= 13 pencils \sqrt{CA}	in one container	
	Number of pencils in 3 containers		
	$= 13 \times 3 \checkmark M$	1M multiply by 3	
	= 39 pencils \checkmark_{CA}	1CA total number of	
		pencils	
	\therefore Correct \checkmark O	10 opinion	
		(9)	
3.1.2	Probability of taking a purple pencil from a container	CA from 3.1.1	Р
	$=\frac{6}{39}\frac{\sqrt{A}}{\sqrt{A}}$	1A numerator	L2
		1A denominator	
	= 0,153846153	1R 3 decimal places	
	$\approx 0.154 \sqrt{R}$	(3)	
		(3)	
3.2.1	Area of rectangle = length \times width	1C convert to mm	М
(a)	$= 150 \text{ mm} \times 120 \text{ mm} \checkmark \text{C} \checkmark \text{SF}$	1SF substitution	L2
	$= 18\ 000\ \mathrm{mm^2}\ \checkmark\mathrm{A}$	1A area of rectangle	
		(3)	
(1)			
(b)	Area of circle $= \pi \times \text{radius}^2$	CA from 3.2.1 (a)	M
	$= 3,142 \times 40^{2} \checkmark A OR 3,142 \times 40 \times 40 \checkmark A$	1A radius	L3
	$= 5\ 027,2\ \mathrm{mm}^2\sqrt{\mathrm{CA}} = 5\ 027,2\ \mathrm{mm}^2\sqrt{\mathrm{CA}}$	1CA area of circle	
	Area without photo = $18\ 000\ \text{mm}^2 - 5\ 027,2\ \text{mm}^2 \checkmark \text{M}$	1MCA subtracting two	
	$= 12 972.8 \text{ mm}^2$	areas	
	$\approx 12.972,8 \text{ mm}^2 \checkmark \text{CA}$	1CA rounding to nearest	
	~ 12 373 mm $\vee CA$	mm^2	

8 Downloaded f momentantanta physics 2 com

3.2.2	Surface area of gift box = 2 (length × width) + 2 (width × height) + 2 (length × height) = 2 (38,8 × 27,5) + 2 (27,5 × 30,0) + 2 (38,8 × 30,0) \checkmark SF \checkmark A = 2 134 + 1 650 + 2 328 \checkmark S = 6 112 cm ² \checkmark CA	1SF substitution 1A correct values 1S simplification 1CA surface area (4)	M L2
2.2.1			
3.3.1	Diameter = $31 \text{ m} \times 2 \checkmark \text{M}$ = $62 \text{ m} \checkmark \text{A}$	1M multiply radius by 2 1A correct diameter (2)	M L2
2 2 2 2			М
3.3.2	Maximum height = $50 \text{ m} + 31 \text{ m} \checkmark \text{MA}$ = $81 \text{ m} \checkmark \text{A}$	1MA adding correctvalues1A answer(2)	M L2
2.2.2			
3.3.3	Circumference = $2 \times \pi x$ radius = $2 \times 3,142 \times 31 \checkmark SF$ = $194,804 \times 2$ = $389,608 \text{ m} \checkmark MA$	1SF substitution1MA multiply by 2 andanswerNPR(2)	M L2
3.3.4	Number of households = $\frac{1750}{25} \checkmark M$ = 70 households $\checkmark A$	1M dividing by 25 1A correct answer (2)	M L1
3.4	Volume of 2 cylindrical basins used three times a day $= \pi \times r^{2} \times h$ $= (3,142 \times 30^{2} \times 45) \times 2 \times 3 \checkmark SF \checkmark M$ $= 763 \ 506 \ cm^{3} \checkmark CA$	1SF substitution 1M multiplying by 2 and 3 1CA volume	M L3
	Litres of water used daily = $\frac{763\ 506}{1\ 000} \times \frac{3}{4} \checkmark C$	1C converting to litres 1CA ³ / ₄ litres of water	
	$= 572,6295 \text{ litres } \checkmark CA$ OR Volume of 2 cylindrical basins used three times a day $= \pi \times r^2 \times h$ $= (3,142 \times 30^2 \times 45) \times 2 \times 3 \checkmark SF \checkmark M$ $= 763 506 \text{ cm}^3 \checkmark CA$ Litres of water used daily $= 763 506 \times {}^{3}\!\!/_{4}$ $= 572 629,5 \text{ cm}^3$ $= \frac{572 629,5}{1000} \checkmark C$ $= 572,6295 \text{ litres } \checkmark CA$	1SF substitution 1M multiplying by 2 and 3 1CA volume of water 1C converting to litres 1CA ³ / ₄ litres of water	
	= $3/2,6293$ litres \checkmark CA	(5)	
		[36]	

YUESI	FION 4 [20 MARKS]		
Ques.	Solution	Explanation	Level
4.1.1	Total number of hours: Friday: 24:00 – 15:30 = 8,5 hours $\checkmark A$ Saturday – Monday = 24 hours $\times 3$ days = 72 hours $\checkmark A$ Tuesday = 10 hours $\checkmark A$ Total number of hours = 8,5 + 72 + 10 = 90,5 hours $\checkmark MA$ Invalid $\checkmark O$	1A number of hours on Friday 1A number of hours for 3 days 1A number of hours on day of departure 1MA adding correct values and correct answer. 1O opinion(5)	M L4
4.1.2	radius = $\frac{\text{diameter}}{2} = \frac{10}{2} = 5 \text{ cm}$ $\checkmark \text{A}$ Volume of cylinder = 3,142 × radius ² × height 1 571 cm ³ = 3,142 × 5 ² × height $\checkmark \text{SF}$ Height = $\frac{1571}{78,55}$ $\checkmark \text{M}$ Height = 20 cm $\checkmark \text{CA}$	1A find radius 1SF substitution 1M change subject of the formula 1CA finding the height (4)	M L3
4.1.3	Area of top and bottom surface = 78,55 cm ² × 2 \checkmark M = 157,1 cm ² ÷ 100 ² \checkmark C = 0,01571 m ² \checkmark S Total cost = 0,01571 m ² × R144,65 \checkmark M = R2,27 \checkmark CA OR Area of top = 78,55 cm ² ÷ 100 ² \checkmark C = 0,007855 m ² \checkmark S Cost of wood of top = 0,007855 × R144,65 \checkmark M = R1,13622575 Total cost = R1,13622575 × 2 \checkmark M = R2,27 \checkmark CA	1M multiply by 2 1C divide by 100 ² 1S simplification of answer in m ² 1M multiply R144,65 1CA answer OR 1C divide by 100 ² 1S simplification of answer in m ² 1M multiply R144,65 1M multiply R144,65 1M multiply by 2 1CA answer (5)	F L3
4.2.1	Actual length = $3,4 \text{ cm} \times 65 \checkmark \text{M}$ = $221 \text{ cm} \checkmark \text{A}$	1M multiply correct values and correctom answer 1A answer (2)	MP L2

10 Downloaded f Kom Stanmorephysics2com

4.2.2	Probability = $\frac{3}{7}$ \checkmark A	1A numerator 1A denominator (2)	P L2	
	10001			
4.2.3	The main bedroom. ✓A	1A correct room	MP	
	Room is facing north. \checkmark O	10 opinion	L4	
	0001	(2)		
Ś		[20]		
TOTAL: 100				

