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MARKING GUIDELINES

EXAMINATION		NATIONAL SENIOR CERTIFICATE	
GRADE		12	
DATE		NOVEMBER 2024	
SUBJECT		MATHEMATICAL LITERACY	
PAPER		2	
MARK TOTAL		150	
DURATION (HOURS)		3	
NUMBER OF PAGES		13	





SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
D	Define
E	Explain
S	Simplification
RT/RG/RD	Reading from table/Reading from graph/Reading from diagram
F	Choosing the correct formula
SF	Substitution in a formula
O	Opinion
RO	Rounding off
P	Penalty, e.g. for no units, incorrect rounding off, etc.
NP	No Penalty for e.g. no units, incorrect rounding off etc.
R	Reason
J	Justification

- When working with percentages $7\% = \frac{7}{100} = 0,07$ all acceptable
- Penalise only once per category for the following mistake categories:
 - Answer must be R52,90 and candidate writes R52,9 (zero missing)
 - Answer on calculator R52,9055 and candidate writes R52,90 (ignored the 3rd decimal)
 - Answer on calculator: R52,27 and candidate writes R52,30 (rounded up to the nearest 10, not asked)
 - Answer on calculator: R52,9044 and candidates writes R52,91 (fundamental error for rounding)
 - Answer on calculator: 52,9055 and candidates does not round to 2 decimals (money must be rounded to 2 decimal places without specifying)
- Penalise only once for m^2 or m^3 omitted or incorrect.
- Penalise only once for "R" not written when working in "Rand".
- When working with foreign currencies, accept the foreign currency symbol OR the words. Penalise if the symbol/word is not used.

QUESTION 1					[28]
No	Answer		Description		
1.1.1	a.	True ✓✓A	2A True (2)	M L1	
	b.	True ✓✓A	2A True (2)	M L1	
	c.	False ✓✓A	2A False (2)	M L1	
	d.	True ✓✓A	2A True (2)	M L1	
1.1.2	a.	24 ÷ 6 ✓ MA = 4 packs ✓A	1MA 24 ÷ 6 1A 4 packs Answer only full marks (2)	M L1	
	b.	Amount (R) = €5,70 × 20,39 ✓MA = R116,22 ✓A	1MA €5,70 × 20,39 1A R116,22 P Money Do not accept R116, 223 Answer only full marks (2)	F L2	
	c.	0% ✓✓A	2A Answer Accept $\frac{8}{24} = 33,33\%$ (2)	P L1	
	d.	B ✓✓A	2A Answer Accept Euro (2)	F L1	
1.1.3	a.	Toulouse ✓✓A	2A Answer (2)	Ma L1	
	b.	9 ✓✓A	2A Answer Accept nine (2)	Ma L1	



	c.	21:00 – 4h ✓MA 17:00 ✓A	1 MA Subtracting 4hrs 1A 17:00 Answer only full marks (2)	M L1
	d.	20 × 1 000 ✓MA = 20 000 m ✓A	1MA Multiply by 1 000 1A 20 000 Answer only full marks (2)	M L1
1.1.4	a.	Left ✓A	1A Answer	Ma L1
	b.	Fourth ✓A	1A Answer	
	c.	North - Easterly ✓A	1A Answer	
	d.	Gustave Eiffel Avenue ✓A	1A Answer (4)	
[28]				

QUESTION 2				[29]
No	Answer	Description		
2.1.1	Length = $\frac{12\,000\text{cm}}{100} = 120\text{ m}$ ✓C Width = $\frac{90\,000\text{ mm}}{1000} = 90\text{ m}$ ✓C Area = Length × Width = 120 m × 90 m ✓SF = 10 800 m² ✓CA <u>cm</u> Length= 12 000 m Breadth= 9 000 cm Area = Length × Width = 12 000 m × 9 000 m = $\frac{108\,000\,000\text{ cm}^2}{(100)^2}$ = 10 800 m² (4 marks) <u>mm</u> Length= 12 0000 m Breadth= 9 0000 cm Area = Length × Width = 12 0000 m × 9 0000 m = $\frac{108\,000\,000\,00\text{ mm}^2}{(1000)^2}$ = 10 800 m² (4 marks)	1C 120m 1C 90 m 1SF Subs 1CA 10 800 m² Either the length or width must be correct to get CA P m² (4)	M	L2
2.1.2	Perimeter= (2 × Length) + (2 × Width) = (2 × 120) + (2 × 90) ✓SF = 420 m ✓CA Distance in m = 2 × 1000 = 2 000 m ✓C Number of laps = $\frac{2\,000}{420}$ ✓ MCA	CA 2.1.1 1SF Subs 1CA 420 m 1C 2 000 m 1MCA ÷ Correct values		

	= 4,7... ✓CA ≈ 5 laps ✓RO ∴ Correct ✓J Or $\left. \begin{array}{l} \text{Length} = \frac{120}{1000} \\ = 0,12 \text{ km} \\ \text{Width} = \frac{90}{1000} \\ = 0,09 \text{ km} \end{array} \right\} \checkmark C$ Perimeter= (2 × Length) + (2 × Width) = (2 × 0,12) + (2 × 0,09) ✓SF = 0,42 km ✓A Number of laps = $\frac{2 \text{ km}}{0,42 \text{ km}}$ ✓M = 4,7... ✓CA ≈ 5 laps ✓RO ∴ Correct ✓J	1CA 4,7 1RO 5 1J correct. PR if round down If stop at 4,7 justifications should say incorrect then 2 marks for justification (full marks) 1C 0, 12km and 0,09km 1SF Subs 1A 0,42 km 1M ÷ Correct values 1CA 4,7 1RO 5 1J correct. (7)	M L4
2.1.3	With preparation: Fertiliser: R3 × 11 000 m² = R33 000 ✓MA Rolling: R15 × 11 000 m² = R165 000 ✓ MA Plant: R41 × 11 000 m² = R451 000 ✓ MA Delivery: R33 × 11 000 m² = <u>R363 000</u> ✓ MA R1 012 000 ✓ CA Without preparation: Plant: R41 × 11 000 m² = R451 000 } ✓MCA Del: R33 × 11 000 m² = <u>R363 000</u> } R814 000 ✓CA Difference = R1 012 000 – R814 000 ✓MA = R198 000 ✓CA	CA 2.1.1 1MA 33 000 1MA 165 000. 1MA 451 000 1MA 363 000 1CA 1 012 000 1MCA 451 000 and 363 000 1CA R814 000 1MA subtracting 1CA difference	O



	<R300 000 ∴ Incorrect ✓J	1J incorrect Only allow 2 errors to get last 3 marks (10)	
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2.2	Length of six pack = $7\text{cm} \times 3$ bottles = 21 cm ✓MA Width of six pack = $7\text{cm} \times 2$ bottles = 14 cm ✓MA Number of packs in length = $\frac{45}{21}$ ✓MCA = 2,1 = 2 packs ✓CA Number of packs in width = $\frac{30}{14}$ = 2,1 = 2 packs ✓CA Number of packs in height = $\frac{60}{20}$ = 3 packs ✓CA Number of six packs that will fit = $2 \times 2 \times 3$ ✓MCA = 12 packs ✓CA	1MA length of six pack 1MA width of six pack 1MCA dividing 1CA 2 packs in length 1CA 2 packs in width 1CA 3 packs in height 1MCA multiplied 1CA answer Either length of width must be correct. Height must be correct to get LAST two marks (8)	M L3
[29]			

QUESTION 3				[39]
No	Answer	Description		
3.1.1	Bar scale ✓✓A	2A Correct scale (2)	Ma L1	
3.1.2	Four OR 4 ✓✓A	2A Answer Accept N1, N2, N9 and N12 (2)	Ma L1	
3.1.3	Southwest ✓✓A	2A Answer Accept SW (2)	Ma L1	
3.1.4	Herold and Oudtshoorn ✓✓A	2A Answer (2)	Ma L1	
3.1.5	Using the length: (bottom bar) 2,5 cm = 40 km ✓A = 40 x 100 000 cm ✓C $\frac{2,5 \text{ cm}}{2,5 \text{ cm}} = \frac{4\,000\,000 \text{ cm}}{2,5 \text{ cm}} \text{ ✓M}$ 1: 1 600 000 ✓A OR 2,6 cm = 40 km ✓A = 40 x 100 000 cm ✓C $\frac{2,6 \text{ cm}}{2,6 \text{ cm}} = \frac{4\,000\,000 \text{ cm}}{2,6 \text{ cm}} \text{ ✓M}$ 1:1 538 462 1: 1 500 000 ✓RO OR 2,4 cm = 40 km ✓A = 40 x 100 000 cm ✓C $\frac{2,4 \text{ cm}}{2,4 \text{ cm}} = \frac{4\,000\,000 \text{ cm}}{2,4 \text{ cm}} \text{ ✓M}$ 1:1 666 667 ✓RO 1: 1 700 000	1A Ruler 2,5cm 1C converting km to cm 1M divide by 2,5 cm 1A 1 600 000 1A Ruler 2,6 cm 1C converting km to cm 1M divide by 2,6 cm 1RO 1 500 000 1A Ruler 2,4 cm 1C converting km to cm 1M divide by 2, 4 cm 1RO 1 700 000 (4)	Ma L3	



3.1.6	Distance on the map = 6,5 cm Actual distance = 6,5 cm x 1 600 000 ✓MCA = 10 400 000 cm ✓CA = $\frac{10\,400\,000\text{ cm}}{100\,000}$ ✓C = 104 km ✓CA OR Actual distance = 6,5 cm x 1 500 000 ✓MCA = 9 750 000 cm ✓CA = $\frac{9\,750\,000\text{ cm}}{100\,000}$ ✓C = 97,5 km ✓CA OR Actual distance = 6,5 cm x 1 700 000 ✓MCA = 11 050 000 cm ✓CA = $\frac{11\,050\,000\text{ cm}}{100\,000}$ ✓C = 110,5 km ✓CA	CA 3.1.5 1MCA multiplied by scale factor 1CA answer 1C dividing by 100 000 1CA actual distance 1MCA multiplied with scale factor 1CA answer 1C dividing by 100 000 1CA actual distance 1MCA multiplied by scale factor 1CA answer 1C dividing by 100 000 1CA actual distance (4)	Ma L3
3.2.1	Time = $\frac{\text{Distance}}{\text{Speed}}$ = $\frac{93\text{ km}}{60\text{ km/h}}$ ✓SF = 1,55 h ✓A = 1 h + (0,55 x 60 min) ✓C = 1 hour 33 minutes ✓CA	1SF substitution 1A 1,55 hours 1C Conversion to hours and minutes (does not need to show) 1CA 1 hour 33 minutes Answer only full marks (4)	M L3



3.2.2	Time = 09:30 – 1 hour 33 min ✓MCA = 07:57 ✓CA		1MCA 09:30 – 1 hour 33 min 1A 07:57 Accept answer in words CA 3.2.1 (2)	M L3
3.2.3	VAT exclusive = R850 x $\frac{100}{115}$ ✓MA = R739,13 ✓A ≈ R740 ✓R Or VAT exclusive = R850 x $\frac{15}{115}$ ✓MA = R 850 – R110,86 = R739,13 ✓A ≈ R740 ✓R		1MA x $\frac{100}{115}$ 1A R739,13 1R rounding (3)	F L2
3.2.4	Welcome drinks or Water/drinks onboard or Guide fees or Admin fees etc. ✓✓✓✓O		4O Any TWO suitable reasons (4)	M L4
3.3.1	i	45 ✓A	1A Answer	M L1
	ii	60 ✓A	1A Answer	
	iii	156 ✓A	1A Answer (3)	
3.3.2	$P = \frac{135}{240}$ ✓MA ✓A = 56,25% ✓A		1MA division 1A correct values 1A % form NPR (56, 56.2, 56,3) Answer only full marks (3)	P L2
3.3.3	Did not see any whales. Got seasick on the cruise. Scared of water Not up to their expectations Not affordable		2O Opinion 1 2O Opinion 2 (4)	M L4



	Any suitable reason relating to the cruise. ✓✓✓✓○		
[39]			

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QUESTION 4				[30]
No	Answer	Description		
4.1.1	3 ✓✓A	2A Answer (2)	Ma L2	
4.1.2	2 ✓✓A	2A Answer (2)	Ma L2	
4.1.3	East ✓✓A	2A Answer (2)	Ma L2	
4.1.4	Lounge ✓A, because it is closest to the terrace ✓O Or Bedroom 3 because it is closest to the terrace	1A Answer 1O suitable/relevant reasoning (2)	Ma L4	
4.1.5	4 ✓✓A	2A Answer Accept 5 (2)	Ma L2	
4.1.6	People have more privacy. ✓✓O Convenience Luxury Any suitable reason	2O Any suitable reason (2)	Ma L4	
4.2.1	$^{\circ}\text{F} = \left(\frac{9}{5} \times ^{\circ}\text{C}\right) + 32$ $400 = \left(\frac{9}{5} \times ^{\circ}\text{C}\right) + 32$ ✓SF $400 - 32 = \left(\frac{9}{5} \times ^{\circ}\text{C}\right)$ ✓M $\frac{5}{9} \times 368 = \frac{9}{5} \times ^{\circ}\text{C} \times \frac{5}{9}$ ✓M $^{\circ}\text{C} = 204,4444 \dots$ ✓CA $^{\circ}\text{C} = 200^{\circ}$ ✓RO	1SF Substitution 1M -32 1M $\times 5$ and $\div 9$ 1CA $^{\circ}\text{C} = 204,4444 \dots$ 1RO $^{\circ}\text{C} = 200$ Independent rounding (5)	M L2	
4.2.2	No. of dozen = $\frac{60}{12}$ ✓MA = 5 dozen ✓A	1MA division 1A answer Answer only full marks	M L2	

QUESTION 5				[24]
No	Answer	Description		
5.1.1	In meters = $10\,000\text{ ft} \times 0,3048$ ✓MA = 3 048 m ✓A	1MA $10\,000\text{ ft} \times 0,3048$ 1A 3 048 m Answer only full marks (2)	M L2	
5.1.2	2:54 pm ✓✓A	2A Answer Do not accept words (2)	M L1	
5.1.3	Diameter = 400 m Radius = $\frac{400\text{m}}{2} = 200\text{ m}$ ✓M Circumference = $2 \times 3,142 \times 200$ ✓SF = 1 256,8 m ✓CA	1M Correct radius 1SF Substitution 1CA Answer NP Accept 1257m (3)	M L2	
5.1.4	Number of days = $22 - 3$ ✓MA = 19 days ✓A	1MA $22 - 3$ 1A 19 days Accept 18 days Answer only full marks (2)	M L2	
5.1.5	No of people = $\frac{45}{100} \times 2\,400\,000$ ✓MA = 1 080 000 people ✓A OR $\frac{45}{100} \times R2,4\text{ million}$ ✓MA = 1,08 million ✓A	1MA $\frac{45}{100} \times 2\,400\,000$ 1A Answer 1MA $\frac{45}{100} \times R2,4\text{ million}$ 1A Answer If 1,08 without "million" 1 mark Accept 1, 08 m or 1,08 mil Answer only full marks (2)	M L2	

5.2.1	Double story ✓A Have stairs that will take a person to the first floor ✓✓J	1A double story 2J reason (3)	Ma L4
5.2.2	4 ✓✓A	2A Answer Accept 3 (2)	Ma L1
5.2.3	Help to get people away safely from an area where there is a threat to people's lives Easier to escape in case of danger Any suitable answer ✓✓O	2O Suitable reason (2)	Ma L4
5.3.1	a = Banana ✓A b = CAT ✓A c = BBW ✓A	1A banana 1A CAT 1A BBW Accept words (3)	P L2
5.3.2	$P = \frac{1}{8}$ ✓MA = 12,5% ✓A ≈ 13% ✓RO	1 MA $\frac{1}{8}$ 1A 12,5 1RO rounding. No independent rounding (3)	P L3
			[24]
GRAND TOTAL: [150]			



NOTES

Question 2

2.1.2	Perimeter= $(2 \times \text{Length}) + (2 \times \text{Width})$ $= (2 \times 120) + (2 \times 90)$ ✓SF $= 420 \text{ m}$ ✓CA Distance in m = 2×1000 $= 2\,000 \text{ m}$ ✓C Perimeter = 0.42 km Distance = $0,42 \times 5$ ✓MCA $= 2,1 \text{ km}$ ✓CA Correct / incorrect ✓✓J Or Perimeter = $(2 \times 120) + (2 \times 90)$ $= 420 \text{ m}$ Distance = 420×5 $= 2\,100 \text{ m}$ $= 2,1 \text{ km}$ Correct / Incorrect	
2.1.3	With preparation: Fertiliser: $R3 \times 10\,800\text{m}^2 = R32\,400$ ✓MA Rolling: $R15 \times 10\,800\text{m}^2 = R162\,000$ ✓MA Plant: $R41 \times 10\,800\text{m}^2 = R442\,800$ ✓MA Delivery: $R33 \times 10\,800\text{m}^2 = \underline{R356\,400}$ ✓MA R993 600 ✓CA	



	Without preparation: Plant: $R41 \times 10\,800\text{m}^2\text{m}^2 = R442\,800$ ✓MCA Del: $R33 \times 10\,800\text{m}^2\text{m}^2 = R356\,400$ ✓CA $R799\,200$ ✓CA Difference = $R993\,600 - R799\,200$ ✓MA $= R194\,400$ ✓CA <R300 000 ∴ Incorrect ✓J	
2.2	Length of six pack = $7\text{cm} \times 3$ bottles $= 21\text{ cm}$ ✓MA Width of six pack = $7\text{cm} \times 2$ bottles $= 14\text{ cm}$ ✓MA Number of packs in length = $\frac{45}{21}$ ✓MCA $= 2,1$ Number of packs in width = $\frac{30}{14}$ $= 2,1$ Number of packs in height = $\frac{60}{20}$ $= 3$ packs ✓CA Number of six packs $2,1 \times 2,1 \times 3$ ✓MCA $= 13,23$ ✓CA $= 13$ ✓✓CA	$\frac{\text{Volume}}{\text{Volume}}$ no marks



Use a bottle In length = $\frac{45}{7}$ ✓MA = 6,42 bottles = 6 ✓A Number of six packs = $\frac{6}{3}$ = 2 six packs ✓A In width = $\frac{30}{7}$ = 4,28 bottles = 4 ✓A Number of six packs = $\frac{4}{2}$ = 2 six packs ✓A In height = $\frac{60}{20}$ = 3 packs ✓A Number of six packs that will fit = $2 \times 2 \times 3$ ✓MCA = 12 packs ✓CA Or $4 \times 3 \times 12$ = 72 bottles = $\frac{72}{6}$ = 12 packs	
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Question 3

3.1.5		MM OPTION
	25 mm = 40 km ✓A = 40 x 1000 000 cm ✓C $\frac{25 \text{ mm}}{25 \text{ mm}} = \frac{40\,000\,000 \text{ mm}}{25 \text{ mm}}$ ✓M 1: 1 600 000 ✓A OR 26 mm = 40 km ✓A = 40 x 1000 000 cm ✓C $\frac{26 \text{ mm}}{26 \text{ mm}} = \frac{400\,000\,000 \text{ mm}}{26 \text{ mm}}$ ✓M 1:1 538 462 1: 1 500 000 ✓RO OR 24 mm = 40 km ✓A = 40 x 1000 000 cm ✓C $\frac{24 \text{ mm}}{24 \text{ mm}} = \frac{4\,000\,000 \text{ cm}}{24 \text{ mm}}$ ✓M 1:1 666 667 1: 700 000 ✓RO Or 1, 1 cm = 20 km ✓A = 20 x 100 000 cm ✓C $\frac{1,1 \text{ cm}}{1,1 \text{ cm}} = \frac{2\,000\,000 \text{ cm}}{1,1 \text{ cm}}$ ✓M 1: 1 800 000 ✓A Or	



$$1 \text{ cm} = 20 \text{ km} \checkmark \text{A}$$

$$= 20 \times 100\,000 \text{ cm} \checkmark \text{C}$$

$$\frac{1 \text{ cm}}{1 \text{ cm}} = \frac{2\,000\,000 \text{ cm}}{1 \text{ cm}} \checkmark \text{M}$$

$$1: 2\,000\,000 \checkmark \text{A}$$

Or

$$1,2 \text{ cm} = 20 \text{ km} \checkmark \text{A}$$

$$= 20 \times 100\,000 \text{ cm} \checkmark \text{C}$$

$$\frac{1,2 \text{ cm}}{1,2 \text{ cm}} = \frac{2\,000\,000 \text{ cm}}{1,2 \text{ cm}} \checkmark \text{M}$$

$$1: 1\,700\,000 \checkmark \text{A}$$

Or

$$11 \text{ mm} = 20 \text{ km} \checkmark \text{A}$$

$$= 20 \times 1\,000\,000 \text{ cm} \checkmark \text{C}$$

$$\frac{11 \text{ mm}}{11 \text{ mm}} = \frac{2\,000\,000 \text{ cm}}{11 \text{ mm}} \checkmark \text{M}$$

$$1:1\,800\,000 \checkmark \text{RO}$$

Or

$$10 \text{ mm} = 20 \text{ km} \checkmark \text{A}$$

$$= 20 \times 1\,000\,000 \text{ cm} \checkmark \text{C}$$

$$\frac{10 \text{ mm}}{10 \text{ mm}} = \frac{2\,000\,000 \text{ cm}}{10 \text{ mm}} \checkmark \text{M}$$

$$1:2\,000\,000 \checkmark \text{RO}$$

Or

$$12 \text{ mm} = 20 \text{ km} \checkmark \text{A}$$

$$= 20 \times 1\,000\,000 \text{ cm} \checkmark \text{C}$$

$$\frac{12 \text{ mm}}{12 \text{ mm}} = \frac{2\,000\,000 \text{ cm}}{12 \text{ mm}} \checkmark \text{M}$$

$$1:1\,700\,000 \checkmark \text{RO}$$

Accept 0,2 cm = 10 km

$$0,3 \text{ cm} = 10 \text{ km}$$

$$0,1 \text{ cm} = 10 \text{ km}$$

**Top bar (40 km):**

$$1,8 \text{ cm} = 40 \text{ km}$$

$$= 40 \times 100\,000 \text{ cm}$$

$$\frac{1,8 \text{ cm}}{1,8 \text{ cm}} = \frac{4\,000\,000 \text{ cm}}{1,8 \text{ cm}}$$

$$1: 2\,222\,222$$

$$1: 2\,000\,000$$

Or

$$1,7 \text{ cm} = 40 \text{ km}$$

$$= 40 \times 100\,000 \text{ cm}$$

$$\frac{1,7 \text{ cm}}{1,7 \text{ cm}} = \frac{4\,000\,000 \text{ cm}}{1,7 \text{ cm}}$$

$$1: 2\,352\,941$$

$$1: 2\,400\,000$$

Or

$$1,9 \text{ cm} = 40 \text{ km}$$

$$= 40 \times 100\,000 \text{ cm}$$

$$\frac{1,9 \text{ cm}}{1,9 \text{ cm}} = \frac{4\,000\,000 \text{ cm}}{1,9 \text{ cm}}$$

$$1: 2\,105\,263$$

$$1: 2\,100\,000$$

Top bar (40 km):

$$0,7 \text{ cm} = 20 \text{ km}$$

$$= 20 \times 100\,000 \text{ cm}$$

$$\frac{0,7 \text{ cm}}{0,7 \text{ cm}} = \frac{2\,000\,000 \text{ cm}}{0,7 \text{ cm}}$$

$$1: 2\,857\,143$$

$$1: 2\,900\,000$$

Or

$$0,8 \text{ cm} = 20 \text{ km}$$

$$= 20 \times 100\,000 \text{ cm}$$

$$\frac{0,8 \text{ cm}}{0,8 \text{ cm}} = \frac{2\,000\,000 \text{ cm}}{0,8 \text{ cm}}$$

$$1: 2\,500\,000$$



3.2.3	VAT exclusive = R850 $\div$ 1.15 ✓MA = R739,13 ✓A $\approx$ R740 ✓R If multiply $\frac{15}{100}$ and subtract 0 marks No independent rounding	
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Question 4

4.1.5	Accept 5	
4.2.3	CA FROM 4.2.2 5×250 = 1250 = $\frac{1\ 250}{15}$ = 83,3 = 84 teaspoons	

Question 5

5.1.3	If use diameter 2/3 Diameter = 400 m Radius = $\frac{400m}{2}$ = 200 m ✓M Circumference = $2 \times 3,142 \times 200$ ✓SF = 1 256,8 m ✓CA Circumference = $2 \times \pi \times 200$ ✓SF = 1256, 6 m ✓CA = 1257 m	
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5.3.1	A = Banana B = Chicken, Apple, Tea C = Beef, Banana, Water Afrikaans A = Piesang B = Hoender, Appel, Tee C = Bees, Piesang, Water	
5.3.2	$P = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	