

MARKING GUIDELINES / NASIENRIGLYNE

EXAMINATION EKSAMEN	NATIONAL SENIOR CERTIFICATE NASIONALE SENIOR SERTIFIKAAT
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DATE / DATUM	NOVEMBER 2025
SUBJECT / VAK	MATHEMATICAL LITERACY/ WISKUNDIGE GELETTERDHEID
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SOUTH AFRICAN COMPREHENSIVE ASSESSMENT INSTITUTE
SUID-AFRIKAANSE KOMPREENSIEWE ASSESSERINGSINSTITUUT

FINAL APPROVED MARKING GUIDELINES / FINAAL GOEDGEKEURDE NASIENRIGLYNE	
DATE OF MEETING / VERGADERINGSDATUM	
UMALUSI MODERATOR / UMALUSI-MODERATOR	
CHIEF MARKER / HOOFNASIENER	
INTERNAL MODERATOR / INTERNE MODERATOR	



SYMBOL / SIMBOOL	EXPLANATION / VERDUIDELIKING
M	Method/ <i>Metode</i>
MA	Method with accuracy/ <i>Metode met akkuraatheid</i>
MCA	Method with consistent accuracy/ <i>Metode met volgehoue akkuraatheid</i>
CA	Consistent accuracy/ <i>Volgehoue akkuraatheid</i>
A	Accuracy/ <i>Akkuraatheid</i>
C	Conversion/ <i>Herleiding</i>
S	Simplification/ <i>Vereenvoudiging</i>
RT/RG	Reading from a table/graph/diagram/ <i>Lees uit 'n tabel/grafiek/diagram</i>
SF	Correct substitution in a formula/ <i>Korrekte vervanging in 'n formule</i>
O	Opinion/Example/Definition/Explanation/ <i>Opinie/Voorbeeld/Definisie/Verduideliking</i>
P	Penalty, e.g. for no units/incorrect rounding off, etc./ <i>Straf, bv. vir geen eenhede/verkeerde afronding, ens.</i>
R	Rounding off/ <i>Afronding</i>
NPR	No penalty for rounding or omitting units/ <i>Geen penalisering vir afronding of weglating van eenhede nie</i>
AO	Answer only, if correct, full marks/ <i>Slegs antwoord, indien korrek, volpunte</i>



QUESTION/VRAAG 1			[30]
	Solution/Oplossing	Explanation/Verduideliking	
1.1.1	25 December/Desember 2020 ✓A✓A	2A 25 December/Desember 2020 (2)	M L1
1.1.2	Netflix ✓A✓A	2A Netflix (2)	M L1
1.1.3	3 OR Three/OF Drie ✓A✓A	2A 3 OR Three/OF Drie (2)	M L1
1.1.4	United States OR US/Verenigde State OF VS ✓A✓A	2A United States OR US/Verenigde State OF VS (2)	M L1
1.1.5	57 minutes/minute ✓A✓A	2A 57 minutes/minute (2)	M L1
1.2.1	a. False/Vals ✓A✓A	2A False/Vals (2)	Ma L1
	b. True/Waar ✓A✓A	2A True/Waar (2)	Ma L1
	c. False/Vals ✓A✓A	2A False/Vals (2)	Ma L1
	d. False/Vals ✓A✓A	2A False/Vals (2)	Ma L1
1.2.2	Formula/Formule 2 OR/OF 2 ✓A✓A	2A Formula/Formule 2 OR/OF 2 (2)	M L1



1.3.1	$\text{Length/Lengte} = \frac{1\,500\text{mm}}{1\,000} = 1,5\text{m} \quad \checkmark\text{MA} \quad \checkmark\text{A}$		1MA $\frac{1\,500\text{mm}}{1\,000}$ 1A 1,5m (2)	M L1
<div style="border: 1px solid black; padding: 5px; text-align: center;"> ANSWER ONLY, FULL MARKS/ SLEGS ANTWOORD, VOLPUNTE </div>				
1.3.2	m OR metres/ OF meters $\checkmark\text{A}\checkmark\text{A}$		2A m OR metres/ OF meters (2)	M L1
1.3.3	Width/Breedte $= 1\,500\text{ mm} - 1\,420\text{ mm} \quad \checkmark\text{MA}$ $= 80\text{ mm} \quad \checkmark\text{A}$		1MA 1 500 mm – 1 420 mm 1A 80 mm (2)	M L1
<div style="border: 1px solid black; padding: 5px; text-align: center;"> ANSWER ONLY, FULL MARKS/ SLEGS ANTWOORD, VOLPUNTE </div>				
1.3.4	a	Strapless/Mouloos $\checkmark\text{A}\checkmark\text{A}$	2A Strapless/Mouloos (2)	P L1
	b	Yellow/Geel $\checkmark\text{A}\checkmark\text{A}$	2A Yellow/Geel (2)	P L1
[30]				



QUESTION/VRAAG 2			[42]	
	Solution/Oplossing	Explanation/Verduideliking		
2.1.1	a.	<p>✓MA</p> <p>Litres/Liters = $\frac{750 \text{ ml}}{1\,000} = 0,75$</p> <p>litres/liters ✓A</p>	<p>1MA $\frac{750 \text{ ml}}{1\,000}$</p> <p>1A 0,75 litres/Liters (2)</p> <p>ANSWER ONLY, FULL MARKS/ SLEGS ANTWOORD, VOLPUNTE</p>	M L1
	b.	<p>0,75 litres/liters = 0,75 kg ✓A</p> <p>Weight/Gewig = 0,75 kg x 2</p> <p>✓MCA</p> <p>= 1,5 kg ✓CA</p>	<p>1A Identifying they are equal/Identifiseer dat dit gelyk is</p> <p>1MCA Multiplication by/Maal met 2</p> <p>1CA 1,5 kg (3)</p> <p>ANSWER ONLY, FULL MARKS/ SLEGS ANTWOORD, VOLPUNTE</p>	M L2
2.1.2	a.	<p>Half an hour/Halfuur = 30 minutes/minute ✓A</p> <p>Calories/Kalorieë = $\frac{30}{10} \times 50$</p> <p>✓MA</p> <p>= 3 x 50</p> <p>= 150 calories/kalorieë</p> <p>✓A</p>	<p>1 A 30 minutes/minute</p> <p>1MA $\frac{30}{10} \times 50$</p> <p>1A 500 calories/kalorieë (3)</p> <p>ANSWER ONLY, FULL MARKS/ SLEGS ANTWOORD, VOLPUNTE</p>	M L2
	b.	<p>Time/Tyd = $\frac{450}{50} \times 10 = 90 \text{ min}$</p> <p>✓MA</p> <p>Time/Tyd = $\frac{90 \text{ minutes}}{60}$ ✓C(CA)</p> <p>= 1,5 hours/ure ✓CA</p>	<p>1MA $\frac{450}{50} \times 10 = 90 \text{ minutes/minute}$</p> <p>1C(CA) Division by/Deel deur 60</p> <p>1CA 1,5 hours/ure</p> <p>(CA one error only/CA slegs met een fout)</p> <p>(3)</p> <p>ANSWER ONLY, FULLMARKS/SLEGS ANTWOORD, VOLPUNTE</p>	M L2



	c.	<p>1,5 litres/liters = 1 500 ml</p> <p>Water left/oor</p> <p>= 1 500 ml – 350ml</p> <p>= 1 150 ml ✓C</p> <p>$\% = \frac{1\,150\,ml}{1\,500} \times 100\% \checkmark M$</p> <p>✓MA</p> <p>= 76,6% ✓CA</p>	<p>1C 1 150 ml</p> <p>1MA Division by/Deel deur 1 500</p> <p>1M x 100</p> <p>1CA 76.6%</p> <p>(CA one error only/CA slegs met een fout)</p> <p>NPR (4)</p>	<p>M</p> <p>L3</p>
2.2.1	NW OR Northwest/OF Noordwes ✓A✓A		<p>2A NW OR Northwest/OF Noordwes</p> <p>(2)</p>	<p>Ma</p> <p>L1</p>
2.2.2	2,1 km ✓A✓A		<p>2A 2,1 km</p> <p>(2)</p>	<p>Ma</p> <p>L1</p>
2.2.3	<p>Ruler/liniaal = 3 cm ✓A</p> <p>(confirm final print/bevestig met finale druk)</p> <p>Real life/Werklikheid</p> <p>= 3 cm x 10 000</p> <p>= 30 000 cm ✓MA</p> <p>Real life/Werklikheid</p> <p>= $\frac{30\,000\,cm}{100}$</p> <p>= 300 m ✓MCA</p> <p>She is correct./Sy is korrek ✓O(CA)</p>	<p>1A 3 cm</p> <p>1MA 3 cm x 10 000 = 30 000 cm</p> <p>1MCA $\frac{30\,000\,cm}{100} = 300\,m$</p> <p>1O(CA) She is correct/Sy is korrek.</p> <p>(4)</p>	<p>Ma</p> <p>L4</p>	



2.2.4	Distance/Afstand = 5,5 km Speed/Spoeed = 3 km/h Time/Tyd = $\frac{5,5 \text{ km}}{3 \text{ km/h}}$ ✓ SF = 1,833...hours/ure = 1hour/ure 50 minutes/minute ✓ A ✓ A	1SF $\frac{5,5 \text{ km}}{3 \text{ km/h}}$ 1A 1 hour/uur 1A 50 minutes/minute (3) ANSWER ONLY, FULL MARKS/SLEGS ANTWOORD, VOLPUNTE	Ma L2
2.3.1	✓ MA Sugar/Suiker = $\frac{60}{22} \times 300 \text{ g}$ ✓ M = 818,18 g ≈ 818 g ✓ R(CA)	1MA $\frac{60}{22}$ 1M x 300 g 1R 818 g (CA if one error only/CA slegs met een fout) (3) ANSWER ONLY, FULL MARKS IF FULLY CORRECT/SLEGS ANTWOORD, VOLPUNTE INDIEN VOLLEDIG KORREK	M L2
2.3.2	Preparation time 60 cookies/Voorbereidingstyd vir 60 koekies ✓ MA Time/Tyd = $\frac{60}{22} \times 10$ = 27,27 ...minutes/minute ✓ A Baking time 60 cookies/Bak tyd vir 60 koekies ✓ MA Time/Tyd = $\frac{60}{22} \times 20$ = 54,54...minutes/minute ✓ A Total time/Totale tyd = 27,27... + 54,54... ✓ MCA = 81,81 minutes/minute ≈ 82 minutes/minute ✓ R(CA)	1MA $\frac{60}{22} \times 10$ 1A 27,27 ...minutes/minute 1MA $\frac{60}{22} \times 20$ 1A 54,54...minutes/minute 1MCA Addition/Optel 1R(CA) 82 minutes/minute (6)	M L3



2.3.3	$^{\circ}\text{C} = (198 - 32) \times \frac{5}{9} \checkmark\text{SF}$ $= 92,2222\dots \checkmark\text{A}$ $\approx 90^{\circ}\text{C} \checkmark\text{R}$	1SF Substitution/vervanging 1A 92,222... 1R 90°C (3)	M L2
2.3.4	Starting time/Begin tyd: 16h00 – 82 minutes/minute $\checkmark\text{MCA}$ $= 14\text{h}38 \checkmark\text{CA}$ Rest/Rustyd: 14h38 – 10h30 $\checkmark\text{MCA}$ $= 4 \text{ hours/ure } 8 \text{ minutes/minute}$ $\checkmark\text{CA}$	1MCA 16h00 – Q2.3.2 (82mins/min) 1CA 14h38 1MCA 14h38 – 10h30 1CA 4 hours/ure 8 minutes/minute CA (2.3.2) (4)	M L3
[42]			



QUESTION/VRAAG 3		[34]	
	Solution/Oplossing	Explanation/Verduideliking	
3.1.1	Wheel height/Wielhoogte = $\frac{180 \text{ mm}}{10}$ = 18 cm ✓MA Height table/Tafelhoogte = $\frac{145 \text{ mm}}{10}$ = 14,5 cm ✓MA Total height/Totale hoogte = 18 + 14,5 ✓MCA = 32,5 cm ✓CA OR/OF Total height/Totale hoogte = 180 + 145 ✓M = 325 mm ✓A Total height/Totale hoogte = $\frac{325 \text{ mm}}{10}$ ✓MCA = 32,5 cm ✓CA	1MA $\frac{180 \text{ mm}}{10} = 18 \text{ cm}$ 1MA $\frac{145 \text{ mm}}{10} = 14,5 \text{ cm}$ 1MCA 18 + 14,5 1CA 32,5 cm OR/OF 1M 180 + 145 1A 325 mm 1MCA $\frac{325 \text{ mm}}{10}$ 1CA 32,5 cm (4)	M L2
3.1.2	a. Length/Lengte = 80 + 120 + 80 + 120 = 400cm ✓MA Length/Lengte = $\frac{400 \text{ cm}}{100}$ ✓MCA = 4 m ✓CA	1MA 80 + 120 + 80 + 120 = 400 cm 1MCA $\frac{400 \text{ cm}}{100}$ Division by/Deel deur 100 1CA 4 m (3)	M L2



	b.	$\text{Strips/Stroke} = \frac{4m}{3} \checkmark \text{MCA}$ $= 1,33\dots \checkmark \text{A}$ $\approx 2 \text{ strips/stroke} \checkmark \text{R}$	1MCA $\frac{4m}{3}$ 1A 1,33... 1R 2 strips/stroke (Must round up/Moet oprond) Independent R if only 1 error/Onafhanklike R indien slegs een fout (3)	M L2
3.2.1	a.	11,5 $\checkmark \text{A}$	1A 11,5 (1)	Ma L4
	b.	8,84 $\checkmark \text{CA}$	1CA 8,84... (1)	Ma L4
	c.	8 $\checkmark \text{R (CA)}$	1R 4 (CA 3.2.1b) Must round down/Moet afrond (1)	Ma L4
	d.	1,3 $\checkmark \text{A}$	1A 1,3 (1)	Ma L4
	e.	10 $\checkmark \text{CA}$	1CA 10 (CA 3.2.1d) (1)	Ma L4
3.2.2		$2,4 \text{ m} = 94,48 \text{ inches/duim} \checkmark \text{MA}$ $\frac{2,4 \text{ m}}{2,4} = \frac{94,48 \text{ inches}}{2,4}$ $1 \text{ m} = 39,36666\dots$ $1 \text{ m} = 39,37 \text{ inches/duim} \checkmark \text{A}$	1MA 2,4 m = 94,48 inches/duim 1A correct ratio/korrekte verhouding (2)	M L2
3.2.3		Bad weather, no sunlight./Slegte weer, geen sonlig Any suitable answer/Enige gepaste antwoord $\checkmark \checkmark \text{O}$	2O Any suitable answer/Enige gepaste antwoord (2)	M L4
3.3.1		Strip map/Strookkaart $\checkmark \text{A} \checkmark \text{A}$	2A Strip map/Strookkaart (2)	Ma L1



3.3.2	A1 and/en A2 and/en A3 ✓A✓A OR/OF A1 and/en A3 ✓A✓A	2A A1 and/en A2 OR A1 and/en A3 (2)	Ma L1
3.3.3	Distance/Afstand = 455 + 232 + 303 ✓MA = 990 km ✓A	1MA 455 + 232 + 303 1A 990km <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> ANSWER ONLY, FULL MARKS/SLEGS ANTWOORD, VOL PUNTE </div> (2)	Ma L2
3.3.4	Time/Tyd = 9hrs/ure 46mins/min = 9,766.....hrs/ure ✓C Speed/Spoed = $\frac{983}{9,766...}$ ✓MCA = 100,64.....km/h ✓CA	1C 9,766.....hrs mins to hrs/ure en min na ure 1MCA $\frac{983}{9,766...}$ 1CA 100,64.....km/h <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> ANSWER ONLY, FULL MARKS/SLEGS ANTWOORD, VOL PUNTE </div> NPR Accept/Aanvaar 100km/h, 101km/h (3)	Ma L3
3.3.5	Liters/liters = $\frac{500}{23,46}$ ✓MA = 21,31liters/liters ✓A Distance on/Afstand op 21,31ℓ = 21,31 x 13 ✓M = 277,03 km Distance/Afstand Via A2 to/na Sekoma =45 km + 46 km + 163 km ✓MA = 254 km ✓A Yes, she will reach Sekoma///Ja, sy sal Sekoma bereik ✓R(CA)	1MA $\frac{500}{23,46}$ 1A 21,31liters/liters 1M 21,31 x 13 1MA 45 km + 46 km + 163 km 1A 254 km 1R(CA) Yes, she will reach Sekoma///Ja, sy sal Sekoma bereik (6)	Ma L4
[34]			



QUESTION/VRAAG 4			[24]
	Solution/Oplossing	Explanation/Verduideliking	
4.1.1	Radius = $\frac{18}{2} = 9$ inches/duim ✓ MA Feet/voet = $\frac{9}{12} = 0,75$ feet/voet ✓ C $V = 3,142 \times (0,75)^2 \times 2$ ✓ SF $= 3,53475$ $\approx 3,5$ ft/vt ³ ✓ CA	1MA $\frac{18}{2} = 9$ inches/duim 1C Conversion to feet/omskakeling na voet 0,75 1SF $3,142(0,75)^2 \times 2$ P to one decimal/na een desimaal (4)	M L4
4.1.2	1 cubic foot/kubieke voet = 7,48 gallons/gallonne $3,5$ ft ³ /vt ³ = $7,48 \times 3,5$ ✓ MCA $= 26,18$ gallons/gallonne ✓ CA	1MCA $7,48 \times 3,5$ 1CA 26,18 gallons/gallonne NPR (2)	M L2
4.1.3	Number of cups/aantal koppies $= \frac{26,18}{0,0625}$ ✓ MCA $= 418,88$ ✓ CA ≈ 418 ✓ R OR/OF Cubic feet/kubieke voet = $\frac{0,0625}{7,48}$ $\approx 0,008355... \text{ft}^3/\text{vt}^3$ ✓ MA Number of cups/Aantal koppies $= \frac{3,5}{0,008355...}$ ✓ MCA $= 418,88$ ≈ 418 ✓ R	1MCA $\frac{26,18}{0,0625}$ (CA with 4.1.2) 1CA 418,88 1R 418 OR 1MA $\frac{0,0625}{7,48} \approx 0,008355... \text{ft}^3/\text{vt}^3$ 1MCA $\frac{3,5}{0,008355...} = 418,88$ 1R 418 P (down/af) Independent rounding/onafhanklike afronding (3)	M L2
4.2.1	Area rectangle/Oppervlak reghoek $= 2 \times (32 \times 2) + 2 \times (15 \times 2)$ ✓ MA $= 128 \text{ m}^2 + 60 \text{ m}^2$ $= 188 \text{ m}^2$ ✓ A OR	1MA $2 \times (32 \times 2) + 2 \times (15 \times 2)$ 1A 188 m^2 1MCA $188 \text{ m}^2 + 10,18 \text{ m}^2$ OR	M L3



	<p>Area of rectangle/Oppervlak van reghoek $= 2 \times (19 \times 2) + 2 \times (28 \times 2)$ ✓MA $= 76 \text{ m}^2 + 112 \text{ m}^2$ $= 188 \text{ m}^2$ ✓A Total Area/Totale Oppervlakte $= 188 \text{ m}^2 + 10,18 \text{ m}^2$ ✓MCA $= 198,18 \text{ m}^2$</p>	<p>1MA $2 \times (19 \times 2) + 2 \times (28 \times 2)$ 1A 188 m^2 1MCA $188 \text{ m}^2 + 10,18 \text{ m}^2$ (3)</p>	
<p>4.2.2</p>	<p>Litres needed/Liters benodig $= \frac{198,18}{14}$ ✓MA $= 14,16$ litres/liters ✓A Tins/blikke $= \frac{14,16}{5}$ ✓MCA $= 2,88$ ≈ 3 tins/blikke ✓R(CA) Two coats, therefore 6 tins/Twee lae verf, dus 6 blikke ✓CA OR/OF Litres needed/liters benodig $= \frac{198,18}{14}$ ✓MA $= 14,16$ litres/Liters ✓A Two coats/Twee lae $= 2 \times 14,16$ $= 28,36$ litres/liters ✓MCA Tins/blikke $= \frac{28,36}{5}$ ✓MCA $= 5,664$ tins/blikke Therefore 6 tins/Daarom 6 blikke ✓R(CA)</p>	<p>1MA $\frac{198,18}{14}$ 1A $14,16$ litres/liters 1MCA $\frac{14,16}{5}$ division by/deel deur 5 1R (CA) 3 tins/blikke. 1CA 6 tins/blikke P Must round up/Moet oprond 1MA $\frac{198,18}{14}$ 1A $14,16$ litres/liters 1MCA $28,36$ litres/liters (two coats/twee lae) 1MCA $\frac{28,36}{5}$ 1R(CA) 6 tins/blikke P Must round up/moet oprond (5)</p>	<p>M L3</p>
<p>4.2.3</p>	<p>Cost/Koste $= 6 \times \text{R}705$ ✓MCA $= \text{R}4\ 230$ ✓CA</p>	<p>1MCA $6 \times \text{R}705$ (CA with/met 4.2.2) 1CA $\text{R}4\ 230$ (2)</p>	<p>F L2</p>



<p>4.3</p>	<p>Radius</p> <p>$1\ 809,792 = 4 \times 3,142 \times r^2$ ✓SF</p> <p>$\frac{1\ 809,792}{4 \times 3,142} = \frac{4 \times 3,142 \times r^2}{4 \times 3,142}$ ✓MCA</p> <p>$144 = r^2$</p> <p>$\sqrt{144} = \sqrt{r^2}$</p> <p>$12 = r$ ✓MCA</p> <p>Diameter/Deursnee = 12×2 $= 24$ cm ✓MCA</p> <p>The ball will fit/Die bal sal pas. Diameter smaller than/deursnee is kleiner as 38 cm ✓O</p>	<p>1SF $1\ 809,792 = 4 \times 3,142 \times r^2$</p> <p>1MCA Division by/deel deur $4 \times 3,142$</p> <p>OR/OF Division/deel deur 12,568</p> <p>1MCA $r = 12$</p> <p>1MCA $D = 24$ cm</p> <p>1O The ball will fit/Die bal sal pas. Diameter smaller than/ deursnee is kleiner as 38 cm</p> <p>(5)</p>	<p>M</p> <p>L4</p>
<p>[24]</p>			



QUESTION/VRAAG 5			[20]
	Solution/Oplossing	Explanation/Verduideliking	
5.1.1	C ✓A✓A	2A C (2)	M L1
5.1.2	<p>Volume = $2 \times 1,9 \times 1$ ✓C ✓SF $= 3,8 \text{ m}^3$ ✓A</p> <p>OR/OF</p> <p>Volume = $200 \times 190 \times 100$ ✓SF $= 38\,000\,000 \text{ cm}^3 \div 1\,000\,000$ ✓C $= 3,8 \text{ m}^3$ ✓A</p>	<p>1C Conversion to metres/Omskakeling na meter</p> <p>1SF $2 \times 1,9 \times 1$</p> <p>1A $3,8 \text{ m}^3$</p> <p>OR/OF</p> <p>1SF $200 \times 190 \times 100$</p> <p>1C Division by/deel deur $1\,000\,000$</p> <p>1A $3,8 \text{ m}^3$</p> <p>(3)</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> ANSWER ONLY, FULL MARKS/SLEGS ANTWOORD, VOLPUNTE </div>	M L2
5.1.3	<p>Box/Boks Model 1</p> <p>Jars in length/Bottels in lengte = $\frac{105}{15}$ $= 7$ ✓MA</p> <p>Jars in width/Bottels in breedte = $\frac{100}{15}$ $= 6,666 \approx 6$ ✓MA(R)</p> <p>Jars in height/Bottels in hoogte = $\frac{120}{25}$ $= 4,8 \approx 4$ ✓MA(R)</p> <p>Total jars/Totale bottels = $7 \times 6 \times 4$ $= 168$ jars/bottels ✓MCA</p> <p>168 less than/minder as 468 ✓O</p>	<p>1MA $\frac{105}{15} = 7$</p> <p>1MA (R) $\frac{100}{15} = 6,666\dots$ ≈ 6</p> <p>1MA(R) $\frac{120}{25} = 4,8$ ≈ 4</p> <p>Must round down/moet afrond</p> <p>1MCA $7 \times 6 \times 4$ $= 168$</p> <p>1O 168 less than/minder as 468</p> <p>(5)</p>	M L4



5.1.4	<p>Box/Boks 1</p> <p>Wasted space/Vermorste spasie $= 1\,260\,000 - (4\,418,44 \times 168) \checkmark \text{MCA}$ $= 517\,702,08 \text{ cm}^3 \checkmark \text{CA}$</p> <p>Box/Boks 2</p> <p>Wasted space/Vermorste spasie $= 3\,800\,000 - (4\,418,44 \times 468) \checkmark \text{MCA}$ $= 1\,732\,170,08 \text{ cm}^3 \checkmark \text{CA}$</p> <p>Box 1 more cost effective/Boks 1 is meer koste effektief. $\checkmark \text{O(CA)}$</p>	<p>1MCA $1\,260\,000 - (4\,418,44 \times 168)$ 1CA $517\,702,08 \text{ cm}^3$</p> <p>1MCA $3\,800\,000 - (4\,418,44 \times 468)$ 1CA $1\,732\,170,08 \text{ cm}^3$</p> <p>1O(CA) Box/Boks 1 more cost effective/meer koste effektief.</p> <p>(5)</p>	M L3
5.2.1	<p>P(Broken/Gebreek) $= \frac{3}{48} \checkmark \text{MA}$</p> <p>P(not Broken/nie gebreek) $= (1 - \frac{3}{48}) \times 100 \checkmark \text{M}$ $= \frac{45}{48} \times 100$ $= 93,75\% \checkmark \text{A}$</p> <p>OR/OF</p> <p>P(not broken/nie gebreek) $\checkmark \text{MA}$ $= \frac{45}{48} \times 100 \checkmark \text{M}$ $= 93,75\% \checkmark \text{A}$</p>	<p>1MA $\frac{3}{48}$</p> <p>1M $(1 - \frac{3}{48}) \times 100$</p> <p>1A 93,75%</p> <p>OR/OF</p> <p>1MA $\frac{45}{48}$ 1M $\times 100$ 1A 93,75%</p> <p>(3)</p>	P L2
5.2.2	<p>Better packaging, bubble wrap/Beter verpakking, bubble wrap.</p> <p>Any suitable answer./Enige gepaste antwoord $\checkmark \checkmark \text{O}$</p>	<p>2O Any suitable answer/Enige gepaste antwoord</p> <p>(2)</p>	Ma L4
[20]			
GRAND TOTAL/GROOTTOTAAL: [150]			