Western Cape Government

Western Cape Education Department

Directorate: Curriculum FET

TERM 2 REVISION MATERIAL

GRADE 12

SUBJECT: MATHEMATICAL LITERACY

MEMORANDUM

Symbol/*Kode*	**Explanation/*Verduideliking***
M	Method/*Metode*
MA	Method with accuracy/*Metode met akkuraatheid*
CA	Consistent accuracy/*Volgehoue akkuraatheid*
A	Accuracy/*Akkuraatheid*
C	Conversion/*Herleiding*
S	Simplification/*Vereenvoudiging*
RT	Reading from a table/graph/document/diagram/*Lees vanaf 'n tabel/grafiek/ dokument/diagram*
SF	Correct substitution in a formula/*Korrekte vervanging in 'n formule*
O	Opinion/Explanation/*Opinie/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 rounding/*Geen penalisasie vir afronding nie*
AO	Answer only/*Slegs antwoord*
MCA	Method with constant accuracy/*Metode met volgehoue akkuraatheid*

FINANCE / FINANSIES

QUESTION / VRAAG 1

Q/V	**Solution/*Oplossing***	**Explanation/*Verduideliking***
1.1.1	Marco van der Merwe ✓✓RT	2RT reading from table
1.1.2	$\frac{\text{R}139{,}80}{2}$ ✓MA = R69,90 ✓CA	1MA devide by 2 1CA simplificcation
1.1.3	21:07 – 18:45 ✓MA ✓A = 2 hours and 22 minutes/*2 ure en 22 minute*	1MA subtraction 1A time duration
1.1.4	No/*Nee* ✓✓RT	2RT reading from table
1.2.1	✓A **Interest rate** – the percentage used to determine the amount of interest ✓A ***Rentekoers*** *– die persentasie wat gebruik om die hoeveeldheid rente te bereken*	1A percentage 1A determine amount
1.2.2	R69 ✓✓RT	2RT reading from table
1.2.3	R2 173,89 – R1 447,30 ✓M = R726,59 ✓A	1M subtraction 1A amount

1.2.4	$\frac{60}{12}$ ✓MA = 5 years/*jaar* ✓CA	1MA divide by 12 1CA simplification
1.3.1	18872,05 – 3472,08 ✓M = R15 399,97 ✓CA	1M Subtracting 3472,08 1 CA
1.3.2	(a) R11,10 ✓RT✓A	1 RT 1 A
	(b) 4,54 + 1,41 × 5,00 ✓M = 4,54 + 7,05 ✓M = 11,59 ✓CA	1M 1M 1CA
	(c) 14665,69 - 95,45 ✓MA = R14 570,24 ✓CA	1 M subtract 95,45 1 CA
1.4.1	$Balloon\ payment = \frac{179900 \times 20}{100}$ ✓M = R35 980,00 ✓CA	1 M calculate % 1 CA
1.4.2	179900 – 15000 + 1207,50 ✓M ✓M = 166107,50	1M subtracting deposit 1 M Adding initiation fee
1.4.3	R3492,27 × 60 + 15000,00 + 35980,00 ✓M ✓M = 209536,20 + 15000,00 +35980,00 ✓S = R260 516,20 ✓CA	1M multiplying 60 1M Adding 1S Simplification 1CA
1.4.4	179900 × 1,0635 × 1,0635 ✓M ✓M = R203 472,70 ✓CA	1M multiplying 1M multiplying 1CA

QUESTION / VRAAG 2

2.1.1	9 months/*maande* ✓✓RT	2RT number of months
2.1.2	R113 000 ✓✓RT	2RT correct amount **(omitting 000 = 0 marks)**
2.1.3	✓MA R(4 001 + 2 195 + 2 173 + 2 794 + 1 735 + 910)'000 = R13 808 000 ✓CA	1MA addition 1CA simplification
2.1.4	R2 195 000 – R1 994 000 ✓MA = R201 000 ✓CA	1MA subtraction 1CA simplification

2.1.5	✓MA $\frac{10,5}{100} \times$ R685 000 = R71 925 ✓CA ≈ R72 000 ✓R	1MA multiply by percentage 1CA simplification 1R rounding
2.1.6	3 ✓✓RT	2RT number of persons
2.1.7	Prof. Schoonwinkel ✓✓RT	2RT correct person
2.1.8	✓A $\frac{1}{6} \times 100\%$ ✓MA = 16,6666….. = 16,67% ✓CA	1A 1 out of 6 1MA × 100% 1CA probability
2.1.9	✓MA Interest/*Rente* = $\frac{9,5}{100} \times$ R155 000 × 2 ✓MA = R29 450 ✓CA Totale bedrag/*Total amount* = R155 000 + R29 450 ✓MA = R184 450 ✓CA	1MA calculating 9,5% 1MA × 2 1CA simplification 1MA adding interest 1CA simplification
2.2.1	R1 999 ✓✓RT	2RT correct amount
2.2.2	Brochures, files, magazines and calendars/ *Brosjures, lêers, tydskrifte en kalenders* ✓✓A	2A items (Only 3 or less items = 1 mark)
2.2.3	R1 999 × 1,14 ✓MA = R2 278,86 ✓CA R2 298,85 – R2 278,86 = R19,99 ✓CA **OR/*OF*** R1 999 + ($\frac{14}{100} \times$R1 999) ✓MA = R2 278,86 ✓A R2 298,85 – R2 278,86 = R19,99 ✓CA **OR/*OF*** 15% - 14% = 1% ✓MA R1 999 × $\frac{1}{100}$ ✓MA = R19,99 ✓CA	1MA multiply by 1,14 1CA simplification 1CA simplification **OR** 1MA adding 14% 1A amount 1CA simplification **OR** 1MA subtracting % 1MA calcualting 1% 1CA simplification

2.2.4	✓RT R1 148,85 ÷ 5 000 ✓M = R0,23 ✓CA	1RT reading from table 1M divide by 5 000 1CA simplification
2.2.5	✓MA ✓MA R1 148,85 + (R343,85 × 2) + R3 448,85 + R918,85 = R6 204,25 ✓CA ✓M ✓M R6 204,25 – ($\frac{25}{100}$ ×R6 204,25) = R4 653,19 ✓CA	1MA multiply by 2 1MA addition 1CA simplification 1M subtraction 1M amount discount 1CA simplification
2.3.1	Deposito = $\frac{10}{100}$ × 49 999,99 ✓M = R4 999,99 ✓CA = R5 000 **OR** Deposito = 76 353,12 – 71 353,13 ✓M = R4 999,99 ✓CA **OR** Deposito = (49 999,99 + 1000 + 500 + 375) – 46 875 ✓M = R4 999,99 ✓CA	1M multiplying by 10% 1CA answer NPR 1M subtracting correct values 1CA answer
2.3.2	Credit is obtaining goods and services before payment ✓A and payment will be done later on agreement includiding interest. ✓A *Krediet is wanneer goedere en dienste verkry word voordat betaling gedoen word* ✓A *en die betaling met rente* ✓A *word later gedoen volgens die ooreenkoms.*	1A goods before payment 1A payment with interest 1A goedere voor betaling 1A betaling met rente
2.3.3	Interest / Rente = $\frac{10\,078{,}13}{24}$ ✓M = R419,92 ✓A **OR** Interest / Rente = $\frac{10{,}75\%}{12}$ × 46 875 ✓M = R 419,92 ✓A	1M division 1A answer OR 1M dividing % by 12 and multiply by 46 875 1A answer
2.3.4	1/8/2021 ✓✓A	2A correct date
2.3.5	VAT / BTW = R 114 400 - $\frac{100}{115}$ × $R14\,400$ ✓M = 14 400 – 12 521,74 ✓M = R1 878,26 ✓A **OR** Insurance amount = $\frac{14\,400}{1{,}15}$ ✓M = 12 521,74 VAT / BTW = 14 400 – 12 521,74 ✓M = R1 878, 26 ✓A **OR**	1M amount exclusive of VAT 1M subtraction 1A answer 1M divide by 1,15 1M subtraction 1A answer 1M working with ratio %

	VAT / BTW = $\frac{14\ 400}{115\%} \times 15\%$ ✓M = R1 878,26 ✓A✓A	2A answer

QUESTION / VRAAG 3

3.1	Withdrawal fee of R20 000 at Bank A = R5,95 + 0,015 × R20 000 ✓ SF = R305,95 ✓CA Fees for 4 withdrawals: R305,95 × 4 ✓M = R1 223,80 ✓CA Withdrawal fee for R20 000 at Bank B = R4,00 + 1,25% × R20 000 = R254 ✓CA Fees for 4 withdrawals = R254 × 4 = R1 016 ✓CA Difference in fees = R1 223,80 – R1 016 = R207,80 ✓CA Statement is valid ✓O **OR** Withdrawal fee of R20 000 at Bank A = R5,95 + 0,015 × R20 000 ✓SF = R305,95 ✓CA Withdrawal fee for R20 000 at Bank B = R4,00 + 1,25% × R20 000 = R254 ✓CA Difference in fees = R305,95 – R254 ✓MCA = R51,95 ✓CA Saving on 4 withdrawals = R51,95 × 4 ✓M = R207,80 ✓CA Statement is valid ✓O	1SF substituting 1CA weekly charges 1M multiplying by 4 1CA fees for 4 withdrawals 1CA weekly charges 1CA fees for 4 withdrawals 1CA difference 1O conclusion **OR** 1SF substituting 1CA weekly charges 1CA weekly charges 1MCA calculating the difference 1CA difference 1M fees for 4 withdrawals 1CA saving 1O conclusion
3.2.1	$\frac{20}{100} \times R800\ 000 =$ R160 000 ✓CA R800 000 – R160 000 ✓MCA = R640 000 ✓CA **OR** ✓M ✓MA 80% × R800 000 = R640 000 ✓CA	1A calculating deposit 1MCA subtracting deposit 1CA answer 1M calculating 80% 1MA multiplying by R800 000 1CA answer
3.2.2	$\frac{6\ 176{,}14}{6\ 606{,}01} \times 100$ ✓MA = 93,49% ≈ 93% ✓R	1MA calculating % 1R nearest %

3.2.3	✓RT $\frac{13\ 762,10}{60\%}$ = R22 930,83 ✓CA ✓M His claim was not correct. ✓O	1RT calculating rate 1M dividing by 60% 1CA answer 1O opinion
3.2.4	There was a 1% discount because he's a GEPF member. ✓✓O **OR** Government employees get 1% discount.	2O opinion
3.2.5	✓SF ✓RT $\frac{640\ 000,00}{1000} \times 9,65$ = R6 176,00 ✓CA No, the instalment is 14 cents more. ✓O **OR** No, the instalment was rounded off to the nearest rand. ✓O	1SF substitution into formula 1RT correct factor from table 1CA answer 1O opinion

MAPS AND PLANS / KAARTE EN PLANNE

QUESTION / VRAAG 1

1.1.1	Lynwood **OR*/OF*** Roper Street/*Straat* ✓✓RT	2RT street
1.1.2	South West/*Suid-Wes* ✓✓RT	2RT direction
1.1.3	Waterkloof ✓✓RT	2RT neighbourhood/area
1.1.4	✓A ✓A Florence Ribeiro/Nicholson/Justice Mahomed	1A Florence Ribeiro 1A Nicholson/Justice Mahomed
1.1.5	• From entrance of main campus travel west in Lynnwood/*Vanaf die hoofkampus se ingang, ry in 'n westelike rigting in Lynwood* ✓A • Turn left at first traffic light, continue pass Magnolia Dall/*Draai links by eerste verkeerslig, hou aan verby Magnolia Dal* ✓A • Turn left in Florence Ribeiro/*Draai links in Florence Ribeiro* ✓A • Continue with Florence Ribeiro and then turn right into George Storrar Drive/*Hou aan met Florence Ribeiro en draai dan regs in George Storrarstraat* ✓A	1A westerly direction in Lynnwood 1A left at traffic light and pass Magnolia Dell 1A turn left in Florence Ribeiro 1A turn right in George Storrar

	• Turn right in Leyds street and then first entrance on the left/*Draai regs in Leydsstraat en dan eerste ingang op linkerkant* ✓A	1A turn right in Leyds
1.1.6	6 ✓✓RT	2RT traffic lights
1.1.7	✓M ✓MA Distance/Afstand = (30 mm × 50 000) ÷ 1 000 000 = 1 500 000 mm ÷ 1 000 000 = 1,5 km ✓CA ✓A	1M multiply by scale 1MA division by 1 000 1CA simplification 1A correct unit
1.2.1	N1 and N3 ✓✓A	2A answer
1.2.2	South ✓✓A	2A answer
1.2.3	Woodmead, ✓A Sunninghill, ✓A Wynberg ✓ **Any two**	2A answer
1.2.4	**Time =** $\frac{Distance}{speed}$ = $\frac{22\ km}{125\ km/h}$ ✓SF = 0,176 hours ✓CA ≈ 0 hour 10,6 minutes ✓C MA	1SF substitution 1 CA answer 1C conversion **NPR**
1.2.5	6,5 cm : 22 km ✓MA **OR** 6,5 cm : 22 km ✓MA 6,5 : 2 200 000 ✓ C 0,000065 : 22 ✓C 1 : 338 468,5 ✓ S 1 : 338 468,5 ✓ S	1 MA method 1C conversion 1S simplification
1.3.1	Entrance/*Ingang* 1 ✓✓RM	2RM reading from the map
1.3.2	Store/*Winkel* 218 ✓✓RM	2RM reading from the plan
1.3.3	Store/*Winkel* 255 ✓RM Bandit Brothers ✓A	1RM reading from the plan 1A correct name of the store
1.3.4	Turn left/west at Vodacom (Store 230) ✓A Follow the corridor until you reach store 215 or 218 ✓A Turn right/north at store 215 / 218 ✓A Store 205 is at the end of the corridor on your right-hand side ✓A	1A turning left/west 1A going straight reaching store 215 or 218 1A turning right/north

	Draai links/wes by Vodacom (Winkel 230) ✓A *Volg die gang tot by winkel 215 of 218* ✓A *Draai regs/noord by winkel 215 / 218* ✓A *Winkel 205 is aan die einde van die gang op regterhand* ✓A	1A reaching the store on the right
1.3.5	Average Speed/*Gemiddelde spoed* ✓SF $= \frac{215\ m}{(15 \times 60) sec}$ ✓C = 0,24 m/s ✓CA	1SF substituting both 215 m and 15 min 1C multiplying by 60 1CA simplification **NPR**
1.3.6	North East/*Noord-oos* ✓✓A	2A general direction
1.4.1	Six **OR** 6 ✓✓A	2A correct number of doors
1.4.2	7;8;10;11;12;20 and 21 ✓✓A	2A correct number of rows **Penalty:** **One missing value one mark** **Two or more missing values no marks**
1.4.3	Length of plane on the plan ✓RT = 50m × 1000 ✓C $= \frac{50\ 000}{200}$ ✓M = 250 mm ✓CA	1RT correct value 1C converting m to mm 1M dividing by 200 1CA answer in mm

QUESTION / VRAAG 2

2.1.1	Less obstructions ✓✓O **OR** Less time spent on the road ✓✓O **OR** Saves fuel ✓✓O **Any other relevant answer**	2O Reason

2.1.2	Distance on the map : 4,5 cm ✓M **[Accept 4,4 – 4,7cm]** 4,5 cm : 545 km 4,5 : 545 × 100 000 ✓C 4,5 : 545 00 000 1 : 12111111,11 ✓CA 1 : 12 111 000 R✓ **OR** 45 mm : 545 km ✓M 45 mm : 545 000 000 ✓C 1 : 121 11111,11 ✓CA 1 : 121 11000 ✓R	1M measure on map 1C conversion 1CA answer 1R rounding with CA **NOTE: Measure on final copy**
2.2.1	Full tanks = $\frac{545\text{ km}}{650\text{ km}}$ ✓MA = 0,8384615385 For a return trip = 0,8384615385 × 2 ✓M = 1,676923077….tanks ≈ 2 full tanks ✓R He will need 2 full tanks.	1MA division 1M multiplying by 2 1R answer
2.2.2	Total cost of petrol = 2 tanks × 55ℓ ✓MA = 110 ℓ 110 ℓ × R15,54 ✓M = R1 709,40 ✓CA	**CA from 2.3.1** 1MCA multiplying by 55 1M multiplying by R15,54 1CA answer
2.3	**Total operating cost** ✓SF = [788 + (8,03 × 15,54 + 22,73 +16,70)] × 545 ✓M = 518957,83^c ✓S = R5 189,58 ✓CA	1SF correct values 1M adding and multiplying 1S answer in cents 1CA answer in rand

MEASUREMENT / METING

QUESTION / VRAAG 1

1.1.1	Length/*lengte* = 2 440 ÷ 1 000 ✓MA = 2,44 m ✓A Width/*breedte*= 2 100 ÷ 1 000 = 2,1 m ✓A	1MA divide by 1 000(÷100÷10) 1A length 1A width
1.1.2	✓MA A = 5 480 – (2 × 2 240) – (2 × 150) = 300 mm ✓CA	1MA subtraction of correct values 1CA simplification
1.1.3	✓M ✓SF Total(e) area = 2 × (2,44 × 2,1) = 10,248 m² ✓CA **OR/*OF*** ✓M ✓SF Total(e) area = 2 × (2 440 × 2 100) = 10 248 000 mm² ✓CA	1SF substitution in formula 1M multiply by 2 1A total area **OR** 1SF substitution in formula 1M multiply by 2 1A total area
1.1.4	B = 1,5 × 3 ✓MA = 0,45 m ✓A ✓M Total(e) area = 5,48 × (2,1 + 0,45) ✓M = 13,974 m² ✓CA Area of bricks/*van bakstene* = 13,974 – 10,248 ✓M = 3,726 m² ✓CA	**CA from Question 1.1.2 and 1.1.3** 1MA multiply by 3 1A value of B 1M multiply by 5,48 1M adding 0,45 1CA simplification 1M subtraction 1CA simplification
1.2.1 (a)	✓MA 245 mm ÷ 10 = 24,5 cm ✓CA	1MA dividing by 10 1CA simplification
1.2.1 (b)	✓MA 17,5 cm ÷ 2 = 8,75 cm ✓CA	1MA divide by 2 1CA simplification
1.2.2	✓SF Volume = 3,142 × (8,75 cm)² × 24,5 cm = 5 893,70 cm ✓A ≈ 5 890 cm³ ✓R	**CA from Question 1.2.1(b)** 1SF substitution in formula 1CA simplification 1R rounding

QUESTION / VRAAG 2

2.1.1	P = $\frac{85}{2}$ ✓MA = 42,5 cm ÷ 100 ✓C = 0,43 m ✓CA	1MA dividing by 2 1C conversion 1CA correct height
2.1.2	Width/*Breedte* = $\frac{75}{2}$ ✓MA = 37,5 cm ✓A Length/*Lengte* = 43,5 cm ✓A	
2.1.3	Area of rectangular lid /*Oppervlakte van reghoekige deksel* = 37,5 x 43,5 ✓SF ✓A = 1 631,25 cm^2 x 100 ✓C = 163 125 mm^2 ✓CA **OR/*OF*** Area of rectangular lid / *Oppervlakte van reghoekige deksel* = 375 x 435 ✓SF ✓C = 163 125 mm^2 ✓✓CA	1SF substitution in the formula 1A correct area 1C conversion 1CA correct area in mm^2 **OR/*OF*** 1SF substitution in the formula 1C conversion 2CA correct area in mm^2
2.1.4	Height/*Hoogte* = 120 – 85 ✓MA = 35 cm ✓A Volume = 75 cm x 43,5 cm x 35 cm ✓SF = 114 187,5 cm^3 ✓CA = 114 000 cm^3 ✓R	1MA subtracting correct values 1A correct height 1SF substitution in the formula 1CA volume 1R rounded volume
2.2.1	80 yards/*jaart* ÷ 1,0936 ✓MA = 73,15 m ✓A	1MA dividing with 1,0936 1A distance in meter
2.2.2	Soccer field/*sokkerveld* = length × width/*lengte × wydte* = 110 m × 73,15 m ✓SF = 8 046,50 m^2 ✓CA	1SF correct substitution 1CA simplification

2.2.3	Grass blocks/*grasblokke* = 150 cm × 80 cm = 12 000 cm^2 ✓A ≈ 1,2 m^2 ✓C Number/*aantal* = 8 046,50 ÷ 1,2 ✓MA = 6 705,41 ✓CA = 6 706 ✓R	**CA from Q2.2.2** 1A area of 1 block 1C conversion 1MA dividing by area of 1 block 1CA simplification 1R rounding
2.2.4	Radius = 14,64 ÷ 2 ✓MA = 7, 32 m ✓A	1MA dividing by 2 1A radius
2.2.5	C ✓✓ A	2A correct formula

QUESTION / VRAAG 3

3.1.1	2 years to 20 years ✓✓A	2A answer
3.1.2	It means that 15% of the girls weigh more than this girl and 85% weigh less. ✓✓ O	2 O explanation
3.1.3 (a)	This girl`s BMI-for-age relationship is positioned between 85th and 95th percentage. She is at risk for overweight. ✓A ✓A	1A percentiles 1A answer
3.1.3 (b)	BMI = $\frac{Weight\ (in\ kilograms)}{(Height\ in\ metres)^2}$ 24,5 kg/m^2 = $\frac{36kg}{(Height\ in\ metres)^2}$ ✓SF ✓M **Height** = $\sqrt{\frac{36}{24,5}}$ ✓M = 1,21 m ✓CA	 1SF correct values 1M new subject 1M finding sq. root 1CA simplification
3.1.4	^{0}F = (1,8 × ^{0}C) + 32 = (1,8 × 5,99) + 32 ✓SF = 42,782^{0}F ✓A ≈ 43^{0}F ✓R	 1SF substitution 1A answer 1R rounding
3.2.1	Total perimeter = 2 × 3 000 + 2 × 9754 ✓M = 6 000 + 19 508 = 25 508 mm ✓A Perimeter of the waiting room = $\frac{2}{3}$ × 25 508 mm ✓M = 17 005,33 mm ✓A	1M Method 1A answer 1M Method 1A answer **NPR**

3.2.2	3 000 mm = 300 cm 9 754 mm = 975,4 cm ✓C Area = 975,4 cm × 300 cm ✓SF = 292 620 cm^2 ✓CA	1C conversion (both) 1SF substitution 1CA answer

QUESTION / VRAAG 4

4.1.1	1 foot/ *voet* = 30,48 cm 4 × 30,48 cm ✓C = 121,92 cm ✓CA r = $\frac{121,92\text{ cm}}{2}$ ✓M = 60,96 cm ✓CA	 1C conversion 1CA simplification 1M dividing by 2 1CA simplification
4.1.2	H = 12 × 2,54 cm = 30,48 cm ✓C Volume = 3,142 × (60,96 cm)² × 30,48 cm ✓SF ✓S Volume = 3,142 × 3716,1216 cm² × 30,48 cm = 355 886,13 cm³ ✓CA	**CA from Question 4.1.1** 1C conversion 1SF substitution of correct values 1S simplification 1CA simplification **NPR**
4.1.3	Area = 3,142 × (60,96 cm)² ✓SF = 3,142 × 3 716,1216 cm² ✓S = 11 676,05407 cm² $\frac{11676,05407\text{ cm}^2}{10\,000}$ ✓MA = 1,167605407 m² = 1,17 m² ✓CA John is correct/*korrek* They have 0,83 m² more than required/ *Hulle het 0,83 m² meer as wat benodig word.* ✓O	**CA from Question 4.1.1** 1SF substitution into formula 1S simplification 1MA dividing by 10 000 1CA simplification 1O opinion
4.1.4	3 × 5 gallon = 15 gallon ✓MA 15 × 3,7854 ℓ ✓C = 56,781 ℓ ✓CA	 1MA multiply by 3 1C conversion 1CA simplification

	20ℓ × 2,75 = 56 ℓ ✓A 56,781 ℓ - 56 ℓ = 0,781 ℓ ✓CA **OR/*OF*** 5 × 3,7854 ℓ = 18,927 ℓ ✓C 18,927 ℓ × 3 ✓MA = 56,781 ℓ ✓CA 20ℓ × 2,75 = 50 ℓ ✓A 56,781 ℓ - 56 ℓ = 0,781 ℓ ✓CA No, she is not correct. There will be a shortage of 0,781 ℓ if she only uses two and three quarter 20 ℓ buckets / ✓O *Nee, sy is verkeerd.* *Daar sal 'n tekort van 0,781 ℓ wees indien sy net twee en 'n drie-kwart 20 ℓ emmers gebruik.*	1A number of litres 1CA simplification **OR** 1C conversion 1MA multiply by 3 1CA simplification 1A number of litres 1CA simplification 1O opinion
4.2.1	r = 60,96 cm ✓CA ✓SF Circumference / *Omtrek* = 2 × 3,142 × 60,96 cm = 383,07264 cm ✓A	**CA from Question 4.1.1** 1CA radius 1SF substitution of correct values 1CA simplification
4.2.2	Length of 1 brick/*Lengte van 1 baksteen* 220 mm ÷ 10 = 22 cm ✓MA $\frac{383{,}07264\text{ cm}}{22\text{ cm}}$ ✓MA = 17,41239273 ✓CA ≈ 18 ✓R 18 bricks × 4 ✓MA = 72 bricks ✓CA	**CA from Question 4.2.1** 1MA dividing by 10 1MA dividing by length of one brick 1CA simplification 1R rounding 1MA multiply by 4 layers 1CA simplification
4.2.3	R2,90 × 72 ✓MA = R208,80 ✓CA R200,00 is not enough */ R200,00 is nie genoeg nie.* It is R8,80 more than R200,00 */ Dit is R8,80 meer as R200,00.* ✓O	**CA from Question 4.2.2** 1MA multiplying with cost of one brick 1CA simplification 1O opinion