••• education	Mathemati	Mathematical Literacy P2 (marking Gu
Department	QUESTION 1 [27 N Question   Solution	QUESTION 1 [27 MARKS] Question Solution
	п	Percentage discount
NATIONAL SENIOR CERTIFICATE	12	Total Cost = 4(R80 + = R400 + = R700 ✓
GRADE 11	1.3	Normal Cost = 4(R
* MATHEMATICAL LITERACY P2		= R10 Early Bird Cost = 4(F = R65
COMMON TEST JUNE 2019		$= R10$ $\frac{R350 \vee M}{R1000} \times 100\% =$ Her statement is corr
MARKING GUIDELINES	1.4	Early Bird Cost = 4(R = R6
MARKS: 75		Cost for 2 Early Bird 1
Symbol Explanation M Motion	1.5	Interest rate for half y
M/A Method with Accuracy		First 6 months: Intere
Consistent Accuracy		Socond 6 months. Int.
A Accuracy (Answer) AO American Andres		
		Last 6 months: Intere
		=R58 5(
RT / RG / Reading from table / Reading from graph / Reading from map/Reading RM/RP from plan		Total Interest = R182
Explanation		1
Correct definition		
Substitution in formula		
Opinion		
Justification Penalty e of for no units incorrect counding and		
Rounding off / Rescon		

mat	matical Literacy P2 (warking Guidelines) NSC 2	
Ĕ	TION 1 [27 MARKS]	
E	on Solution	Explanation
	Percentage discount = $\frac{R30 \lor MA}{R80 \lor M} \times 100\%$ = 37,5% $\lor A$	IMA for dis 1 M for divid 1A correct ar
	Total Cost = 4(R80 + 20) + 5(R40 + 20) ✓ ✓ M = R400 + R300 ✓ S = R700 ✓ A	1M for addin 1M for multi 1S simplifica 1A correct ar
	Normal Cost = 4(R150) + 5(R80) VMA = R1000 VA Early Bird Cost = 4(R100) + 5(R50) VMA = R650 VA	1MA additio 1A normal c 1MA additio 1A Early Bir

Common Test June 2019

UESTIC	UESTION 1 [27 MARKS]	μ	Б
lestion	Solution	Explanation	L & L
	Percentage discount = $\frac{R30 \cdot MA}{R80 \cdot M} \times 100\%$ = $37,5\% \cdot A$	count amount ing by 80 swer	wnloź
	Total Cost = 4(R80 + 20) + 5(R40 + 20) イM = R400 + R300 イS = R700 イA		ded f
	Normal Cost = $4(R150) + 5(R80) \checkmark MA$ = $R1000 \lor A$ Early Bird Cost = $4(R100) + 5(R50) \lor MA$ = $R650 \lor A$ = $R1000 - R650$ R350 $\checkmark M$ = $R1000 - R650$ Her statement is correct $\lor O$		mm Stanm
	Early Bird Cost = 4(R100) + 5(R50) / M = R650 / M Cost for 2 Early Bird Tickets = R1 300 / A		Strend
	Interest rate for half year is $\frac{7,896}{2\sqrt{M}} = 3,9\%\sqrt{M}$ First 6 months: Interest = $3,9\% \times R1500000\sqrt{M}$ = $R58500\sqrt{CA}$ Second 6 months: Interest = $3,9\% \times R158500$ = $R60781,50\sqrt{CA}$ Last 6 months: Interest = $3,9\% \times R1619281,50$ = $R63151,98\sqrt{CA}$ = $R58500 + R60781,50 + R63151,98$ Total Interest = $R182433,48\sqrt{CA}$		wsics com
		[24]	n

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6) 5) * 0 14 4 4			N
	20 proper advice (2)	Physical exercise/Change of dietイイの	hlë
	10 correct conclusion (5)	The children were correct√0	ad
	1M dividing the square of 1,76 1A correct answer	$BM1 = \frac{(1.76)^2 \sqrt{M}}{29.38 \sqrt{A}}$	ed
	1C converting 176 cm to metres 1M for 91 kg	176  cm = 1.76  m/C 91/M	2.3
2 4	20 disadvantage (2)	It is not accurate, values are estimated 🗸 🗸 🕖	roi
-	ICA for distance (3)	= 268 miles VCA	h
	ē	$\frac{2 \text{ cm} = 80 \text{ miles}}{6.7 \times 80} \sqrt{M}  \sqrt{A}$	Sta
10/10	1A distance on the map	distance on the map is $6,7 \text{ cm}\sqrt{A}$ (accept $6,5 - 6,9$ )	nm
	OR	OR	nore
	1M dividing by 2,8 1CA for distance	2,8/M =191,43 <i>km</i> √CA	eph
ដ	1M multiplying by 80	2,0 CIII - 00KIII → A 6,7 × 80 ✓M	ys
M	1A distance on the map	distance on the map is 6,7 cm $\checkmark$ A (accept 6,5 – 6,9)	i€
) 4	1J verification (7)		s.
	1M dividing by 23 784	Number of return flights = $\frac{183380}{22000} = 7,71 \sqrt{CA}$	СС
	1M multiplying by 2 1M return flight fuel	Fuel for return flight = $2 \times 11 892 \ell v$ M = $23 784 v$ M	om
	IN multiplying 221 of 12 IS simplification	Fuel 101 771 AII $-$ 771 A 147 M = 11 8921 $\vee$ S	2.1.2
) ≰⊑	1M multiplying 001 by 12	E] 6	1 2
	1M multiplying 6000 by 4 1CA consistent accuracy	Number of litres = $6\ 000 \times 4l\sqrt{M}$	
M	1M multiplying 100 by 60 1C conversion to seconds	100 minutes = 100 × 60 seconds∨ M = 6 000 seconds√ C	2.1.2
	IK rounging on (5)	≈ 595 km/h√R	
	1A correct answer	$= 594,62 \text{ km/h} \sqrt{A}$	
	1SF justification	Speed = $\frac{991}{1.6666} \checkmark$ SF	
	1C converting hours to minutes		
	1M for dividing by 60	$100 \text{ minutes} = \frac{100}{60} \checkmark \text{M}$	
M		2.1.1 60 minutes = 1 hour	2.1.1

AO     (1:20)     (2)     12       A     1M for dividing 44 by 20     M     M       1A correct length and width     1M for dividing 105 by 20     M       1A correct substitution     1A     13       1A correct substitution     (4)     13       1A correct answer     (2)     12       1A correct substitution     (4)     13       1A correct answer     (2)     12       1M for 1.0527     12     12       1SF correct substitution     M       1SF correct answer/accuracy     12       1SF correct answer/accuracy     13       1CA correct answer/accuracy     13       1M for the increase of R806,95     F       1M addition     12       1M for the increase of R869,33 m     F       A     1M for the increase of R869,33 m       76,28 v M     1M for average increase       1SF correct substitution     12       1SF correct opinion     700       1O correct opinion     700       14     14	$R14 999 = 11,18 \checkmark CA$ The father is correct $\checkmark 0$	
AO (1:20)       (2)         1M for dividing 44 by 20       1A correct length and width         1M for dividing 105 by 20       1A correct substitution         1A correct substitution       1A correct answer         1A correct substitution       1A correct answer         1A correct answer       (2)         1M for 1.0527       1SF correct answer/accuracy         1SF correct answer/accuracy       (3)         1CA correct answer/accuracy       (3)         1M for the increase of R806,95       1M for the increase of R806,95         1M addition       1CA correct answer/accuracy         1A for the increase of R869,33 m       1A for the for 5,28         1M for average increase       S.28 vM         1SF correct substitution       1SF correct answer/accuracy         1SF correct substitution       1CA correct answer/accuracy         1SF correct substitution       1SF correct answer/accuracy         1SF correct answer/accuracy       10 correct opinion	R14 999	
AO (1:20)     (2)       1M for dividing 44 by 20       1A correct length and width       1M for dividing 105 by 20       1A correct substitution       1A correct substitution       1A correct answer       (4)       1SF correct substitution       1A correct answer       (2)       1M for 1.0527       1SF correct answer       (2)       1M for 1.0527       1SF correct answer/accuracy       (3)       1CA correct answer/accuracy       (3)       1M for the increase of R806,95       1M for the increase of R869,33 m       1M for the increase of R869,33 m       1M for average increase       1SF correct substitution       1A for R16 675,28       1M for average increase       1SF correct substitution       1SF correct answer/accuracy       SF       1SF correct answer/accuracy       1SF correct answer/accuracy       1SF correct answer/accuracy       1SF correct answer/accuracy       1SF correct answer/accuracy		
AO (1:20)     (2)       1M for dividing 44 by 20       1A correct length and width       1M for dividing 105 by 20       1A correct substitution       1A correct substitution       1A correct answer       (2)       1SF correct substitution       1A correct answer       (2)       1M for 1,0527       1SF correct substitution       1A correct answer/accuracy       (3)       1M for the increase of R806,95       1M for the increase of R806,95       1M for the increase of R806,95       1M for the increase of R869,33 m       1A for R16 675,28       1M for average increase       1SF correct substitution		
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct substitution     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1,0527     1SF correct substitution       1A correct substitution     (4)       1SF correct answer     (2)       1M for 1,0527     1SF correct answer/accuracy       1SF correct answer/accuracy     (3)       1CA correct answer/accuracy     (3)       1M for the increase of R806,95     1M for the increase of R806,95       1M for the increase of R806,95     1M for the increase of R806,95       1M for the increase of R806,95     (3)       1M for the increase of R869,33 M     1M for the increase of R869,33 M       1M for average increase     CS		
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct substitution     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1,0527     1SF correct substitution       1SF correct substitution     (4)       1SF correct answer     (2)       1IM for 1,0527     1SF correct answer/accuracy       1SF correct answer/accuracy     (3)       1CA correct answer/accuracy     (3)       1M for the increase of R806,95     1M addition       1CA correct answer/accuracy     (3)       1M for the increase of R869,33 M     1M for the increase of R869,33 M       1M for R16 675,28     C       1M for average increase     C	Average Percentage Increase	
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1,0527     1SF correct substitution       1SF correct answer     (2)       1M for 1,0527     1SF correct substitution       1SF correct answer/accuracy     (3)       1M for the increase of R806,95     1M addition       1CA correct answer/accuracy     (3)       1M for the increase of R806,95     1M addition       1M for the increase of R869,33 (3)     1M addition       1M addition     1A for R16 675,28	Average increase from 2019 = R1 676,28 VM	
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1,0527     1SF correct substitution       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1,0527     1SF correct answer/accuracy       1SF correct answer/accuracy     (3)       1CA correct answer/accuracy     (3)       1M for the increase of R806,95     1M addition       1CA correct answer/accuracy     (3)       1M for the increase of R869,33     (3)       1M addition     (3)	= R16 675,28 × A	
AO (1:20)     (2)       1M for dividing 44 by 20     1A correct length and width       1M for dividing 105 by 20     1A correct substitution       1A correct substitution     (4)       1SF correct answer     (2)       1M for 1.0527     1SF correct substitution       1SF correct answer     (2)       1M for 1.0527     1SF correct answer/accuracy       1SF correct answer/accuracy     (3)       1CA correct answer/accuracy     1M for the increase of R806,95       1M for the increase of R869,33     1M for the increase of R869,33	2021 Price = R15 805,95 + R869,33 V M	
AO (1:20)     (2)       1M for dividing 44 by 20     1       1A correct length and width     1       1M for dividing 105 by 20     1       1A correct height     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1.0527     1       1SF correct substitution     (2)       1M for 1.0527     1       1SF correct answer/accuracy     (3)       1M for the increase of R806,95     1       1M addition     1       1CA correct answer/accuracy     (3)	5,50% of R15 805,95 = R869,33√M	3.2.3
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct substitution     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1.0527     1SF correct substitution       1SF correct substitution     (2)       1M for 1.0527     1SF correct answer/accuracy       1CA correct answer/accuracy     (3)       1M for the increase of R806,95     1M addition       1CA correct answer/accuracy     1M addition		
AO (1:20)     (2)       1M for dividing 44 by 20     1A correct length and width       1M for dividing 105 by 20     1A correct height       1A correct substitution     1A correct substitution       1A correct substitution     1SF correct answer       1M for 1.0527     1M for 1.0527       1SF correct answer/accuracy     (2)       1M for 1.0527     1M for the increase of R806,95       1M addition     1M addition	= R15 805,95√CA	
AO (1:20)       (2)         1M for dividing 44 by 20       (2)         1A correct length and width       1M for dividing 105 by 20         1A correct substitution       (4)         1SF correct substitution       (4)         1A correct answer       (2)         1M for 1.0527       1M for 1.0527         1SF correct substitution       1CA correct answer/accuracy         1M for the increase of R806,95       (3)	2020 Price = R14 999 + R806,95√M	
AO (1:20)       (2)         1M for dividing 44 by 20       (2)         1A correct length and width       1M for dividing 105 by 20         1A correct substitution       (4)         1SF correct substitution       (4)         1A correct answer       (2)         1M for 1.0527       1SF correct substitution         1SF correct substitution       (2)         1A for 1.0527       (2)         1SF correct answer/accuracy       (3)	5,38% of R14 999 = R806,95 VM	3.2.2
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct neight     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1.0527     1SF correct substitution       1CA correct answer/accuracy     1CA	~	
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct answer     (2)       1M for 1,0527     1M for 1,0527	= R14 248,12 V CA	
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution     (4)       1M for 1,0527     1SF correct substitution	1,0527	
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution     (4)       1A correct answer     (2)       1M for 1,0527     (2)		
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution     (4)       1A correct answer     (2)	$105,27\% = 1,0527\checkmark M$	3.2.1
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution     (4)		
AO (1:20)     (2)       1M for dividing 44 by 20     (2)       1A correct length and width     1M for dividing 105 by 20       1A correct height     (4)       1SF correct substitution	= 60×A	
AO (1:20)       (2)         1M for dividing 44 by 20       (2)         1A correct length and width       14         1M for dividing 105 by 20       14 correct height         (4)       (4)	°C = (140°F − 32) ÷ 1,8√SF	3.1.3
AO (1:20) (2) 1M for dividing 44 by 20 1A correct length and width 1M for dividing 105 by 20 1A correct height		
AO (1 : 20) (2) 1M for dividing 44 by 20 1A correct length and width 1M for dividing 105 by 20	= 5,25 cm√A	
AO (1:20) (2) 1M for dividing 44 by 20 1A correct length and width	height = $\frac{1}{20}$ VM	
AO (1 : 20) 1M for dividing 44 by 20 1A correct length and width	105 20	
AO (1 : 20) 1M for dividing 44 by 20 (2)	length = width = $\frac{1}{20}$ $\checkmark$ M = 2,2 cm $\checkmark$ A	3.1.2
(2)	44	10
NO (1.30)		
(n7 · r) Sundanis er		
	C. 17 - 14 - 001 - 0	
tio 8 : 160	$8 \cdot 160 \sqrt{M} = 1 \cdot 20 \sqrt{S}$	11
T/L	OUESTION 3 PI MARKS	DUEST

Mathematical Literacy P2 (Marking Guidelines)

NSC 3

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