KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 10

MATHEMATICAL LITERACY

COMMON TEST

SEPTEMBER 2022

MARKING GUIDELINE

MARKS: 75

SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy(Answer)
C	Conversion
S	Simplification
RT/RG/RD	Reading from a table/ graph/ diagram
NPR	No penalty for units/rounding
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example
J	Justification
R	Rounding off/
F	deriving a formula
E	Explanation
U	Units
AO	Answer only full marks

This Marking guideline consists of 4 pages.

	QUESTION 1 [16 MARKS] ACCEPT AO		
QUE	**SOLUTION**	**EXPLANATION**	**TL**
1.1.1	11 February 2022✓✓A	2A, Answer **Accept 11 February** (2)	L1 F
1.1.2	Five thousand rands✓✓A	2A, Answer (2)	L1 F
1.1.3	27 cm ✓✓A	2A, Answer (2)	L1 M
1.1.4	0 ✓✓A	2A, Answer (2) **Accept zero**	L1 P
1.2.1	Layout plan is the plan showing the seating arrangement of the award venue in relation to one another. ✓✓A	2 A, Answer (2) **1 out of 2 for general definition.**	L1 MP
1.2.2	60 people✓✓A	2A, Answer (2)	L1 MP
1.2.3	South East / SE✓✓A	2A, Answer (2)	LI MP
1.2.4	6.8cm ✓✓A	2A, Answer (2) **Accept leeway of 0,2**	L1 M
		[16]	

QUE	**QUESTION 2 [20 MARKS]**	**EXPLANATION**	**TL**
2.1	Balance reflected at the beginning of the bank statement of Mr Avern. ✓✓A	2A, Answer (2) **1 out of 2 for general definition.**	L1 F
2.2	A = R2 520 + R13 000 ✓MA A = R15 520✓A B = R13 000 – R370,30✓MA B = R12 629,70✓A	1MA, adding correct values 1A, answer 1MA, subtracting correct values 1A, answer (4)	L2 F
2.3	For security reasons✓✓E **OR** Any valid reason	2E, correct explanation (2)	L4 F
2.4	R5 560 = R6000 (part thereof) ✓M Bank Fees = R2,00 + R1,20 × $(\frac{6000}{100})$✓SF = R74✓A	1M, representing R5 560 as R6000 1SF, correct substitution 1A, answer (3)	L3 F
2.5.1	C = R2 +1,20 × $(\frac{1000}{100})$✓SF = R14✓A	1SF, substituting correct values 1A, answer (2)	L2 F

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2.5.2	✓RT R32 = R2 +1,20 × $(\frac{D}{100})$✓SF D = R2 500✓A	1RT, reading correct value 1SF, substituting correct values 1A, answer (3)	L2 F
2.5.3	Part thereof means anything that is not R100 will be taken as R100.✓✓E **OR** Any valid reason	2E, explanation of part thereof (2)	L1 F
2.5.4	To avoid charging people more money for transactions✓✓A **OR** Any valid reason	2A, Answer (2)	L4 F
		[20]	

	QUESTION 3[27 MARKS]		
QUE	**SOLUTION**	**EXPLANATION**	**TL**
3.1.1	✓RT 2A = 27cm – 25 cm✓MA 2A = 2cm✓S A = 1 cm✓A	1RT, correct values of length 1MA, subtracting correct values 1S, Simplification 1A, Answer (4)	L3 M
3.1.2	P = 2 (27 cm + 21cm) ✓SF = 96 cm✓A	1SF, correct substitution 1A, Answer (2)	L2 M
3.1.3	Area of the certificate = 27 cm × 21cm = 567 cm^2✓A Area of the wooden frame = 567 cm^2- 450 cm^2✓MA = 117cm^2 ✓ A	1A, area of the certificate 1MA, subtracting area 1A, Answer (3)	L3 M
3.1.4	Duration to design 60 certificates = 5 × 60✓M = 300 minutes✓A Duration in hours = $\frac{300}{60}$ = 5 hours✓C The statement is incorrect✓O	1M, multiplying correct values 1A, Answer in minutes 1C, converting minutes to hours 1O, conclusion (4)	L3 M
3.1.5	For protection✓✓E **OR** Durability. ✓✓E **OR** Beautify✓✓E **OR** Any valid reason	2E, Explanation (2)	L4 M
3.2 a)	0,055✓✓A	2A, Answer (2) **NPR** **Accept 0,06**	L2 F
b)	Interest for 1 year = $\frac{5,5}{100}$ × R5000 = R275✓A Interest for 3 years = R275 × 3✓M = R825✓A	1A, interest of 1 year 1M, multiplying interest by 3 1A, Answer (3)	L3 F

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3.3.1	No of certificates along length = $\frac{100cm}{27cm}$✓M = 3✓R No of certificates along width = $\frac{100cm}{21cm}$ = 4✓R Total to fit in ONE box= 3 × 4 × 5✓MA = 60 certificates✓A	1M, dividing 100cm by 27 cm 1R, Rounding length 1R, Rounding width 1MA, multiplying correct values 1A, Answer (5)	L3 MP
3.3.2	To avoid the certificates from breaking if the box falls. ✓✓E **OR** Any valid reason	2E, Explanation (2)	L4 M
		[27]	

	QUESTION 3[12 MARKS]		
QUE	**SOLUTION**	**EXPLANATION**	**TL**
4.1	**Step 1** = Wash hands / Apply hand sanitizer.✓✓E **Step 2** = Wear a new pair of gloves.✓✓E **Step 3** = Press the holes of the shield onto the pegs of the headband frame.✓✓E **Step 4** = Hold assembly with transparent shield facing down.✓✓E **Step 5** = Place a strip of microfilm surgical tape on the inside edge. ✓✓E	2E, correct explanation step 1 2E, correct explanation step 2 2E, correct explanation step 3 2E, correct explanation step 4 2E, correct explanation step 5 (10)	L3 MP
4.2	To make it easier for a person who might not read to see via the picture how to assembly✓✓E **OR** Any valid reason	2E, correct explanation (2)	L4 MP
		[12]	
		TOTAL:[75]	



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