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KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 11

MATHEMATICAL LITERACY

COMMON TEST SEPTEMBER 2022

MARKING GUIDELINE

MARKS: 100

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 6 pages.

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QUESTION 1 [22 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
1.1.1	North west (NW)✓✓A	2A, Direction (2)	L1 MP
1.1.2	Golf ✓✓RT	2RT, Answer (2)	L1 MP
1.1.3	N1 ✓✓RT.	2RT, Answer (2)	L1 MP
1.1.4	60mm✓✓A	2A, Correct Distance **Allow mm** (2)	L1 M
1.2.1	R26.49✓✓RT	2RT, Correct Answer (2)	L1 DH
1.2.2	Price per egg = ——✓MA = R3.42 ✓CA	1MA, Dividing correct cost by 6 1CA, Price per egg **AO** (2)	L1 F
1.2.3	Mass = —— ✓C = 0.5kg✓A	1C, Conversion 1A, Answer **AO** (2)	L1 M
1.2.4	Sugar ✓✓RT	2RT, Sugar (2)	L1 F
1.3.1	2019✓✓RT	1RT, Correct year (2)	L1 M
1.3.2	Total mass = 67.86g×400✓MA = 27 144g ✓A	1MA, Multiplying the mass by 400 1A, Answer **AO** (2)	L1 M
1.33	C ✓✓A	2A, Answer **Accept** (2)	L1 M
		[22]	

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QUESTION 2 [26 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
2.1.1	Final amount = R1470 ×36 months ✓M = R52 920✓A	1M, Multiplication 1A, Answer **AO** (2)	L2 F
2.1.2	Original price = R29 995 + R3 000 ✓M = R32 995✓A	1M, Adding the discount 1A, Answer **AO** (2)	L2 F
2.1.3	✓SF %discount = ——————— ✓S = - 9.09% ✓CA **OR** ✓M %discount = ——— % ✓S = 9.09% decrease ✓CA **OR** ✓M %discount = ——— % = 90,9077 % -100% ✓S =- 9.09% ✓CA	**CA from 2.1.2** 1SF, Correct Substitution 1S, Simplification 1CA, Answer **OR** 1M, Dividing Discount by original price 1S, Simplification 1CA, Answer **OR** 1M, Dividing cash price by original price 1S,Subtracting 100% 1CA, Answer (3)	L3 F
2.1.4	Option2 = R52 920 ✓CA Option 3 = R2 500 × 12 months✓M =R30 000 ✓A Ms Clementine is correct, ✓O the longer the term the more interest is paid ✓O	**CA from 2.1.1** 1CA, Correct option 2 reading 1M, Multiplying by 12 1A, Answer 1O, Opinion 1O, Reasoning (5)	L4 F
2.1.5	✓M Interest = —— =R5 400× 4 years✓MA =R21 600 ✓A	1M, Percentage interest 1MA, multiplying by 4yrs 1A, Total interest (3)	L2 F
2.2.1	22:10 ✓✓A	2A, Correct time format (2)	L2 M
2.2.2	No. of clocks = ——✓M =15 ✓A	1M, Dividing by total cost by 425 1A, Number of clocks **AO** (2)	L2 F
2.2.3	✓M VAT amount =—— ✓MA = R812.52	1M, Multiplying total price by 15% 1MA, Dividing by 115% (2)	L2 F
2.2.4	Fee = R34 + —— ✓M =R71.50 ✓CA	1M, Multiplying rate by R3000 1CA, Answer (2)	L2 F
2.2.5	Break even point = ————✓M = ——✓SF = 20✓A	1M, Calculating profit 1SF, Correct substitution and simplification 1A, Answer (3)	L3 F
		[26]	

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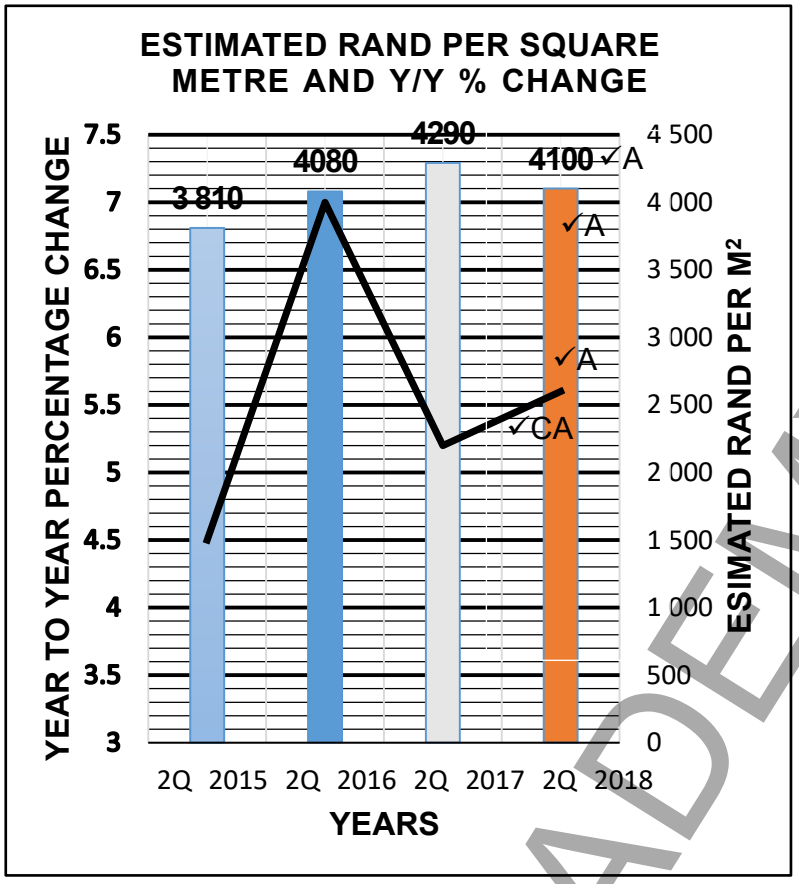
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QUESTION 3 [32 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
3.1.1	✓M Total area = 16 +4+10+3+12+12+18+11+14 = 100m^2✓CA	1M, Adding correct values 1CA, Total area **AO** (2)	L2 M
3.1.2	✓M % area = ——— ✓MA = 18%	**CA from 3.1.1** 1M, Dividing correct values 1MA, Percentage concept (2)	L2 M
3.1.3	10.9cm :11210mm ✓C 109mm : 11210mm✓RT 109mm109mm 1 : 102.844036 ✓CA 1 :100 ✓R	1C, Conversion 1RT, Correct actual length 1CA, Answer 1R, Rounding (4)	L3 MP
3.1.4	Width = ——✓MA =2,635 =2.6m✓A	1MA, Dividing by ratio 1A, Correct width **NPR** (2)	L3 M
3.1.5	Coffee table✓✓A	2A, Answer **Accept table** (2)	L4 MP
3.1.6	B ✓✓RT	2RT, Correct elevation (2)	L4 MP
3.1.7	Garage✓✓O **OR** Car port✓✓O	2O, Opinion (2)	L4 MP
3.2.1	25.8; 21.3; 19.4; 18.6; 12.7; 10.1; 9.9; 7.0; 6.7; 5.2; 4.7; 4.5; 0.8 ✓✓A	2A, Descending order (2)	L1 DH
3.2.2	Inflation – is the general increase or decrease in the price of the building cost of new house in South Africa. ✓✓E	2E, Correct Definition **General definition: 1out of 2 marks** (2)	L1 F
3.2.3	Mean = ✓M ——————————— Mean =—— ✓MA = 7.146 = 7.1✓CA	1M, Adding correct values 1MA, Dividing total percentage 1CA, Answer **NPR** (3)	L2 DH
3.2.4	Six thousand five hundred and two rands ✓✓A	2A, Amount in words (2)	L2 DH
3.2.5	Q1 or First quarter 2018 ✓RT ✓MA Difference = R8 010 – R7 948 = R62 ✓CA	1RT, Correct quarter 1MA, Subtracting values 1CA, Answer (3)	L3 DH

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3.2.6		1A, Correct bar (4 100) 1A, Correct point (5.6%) 1CA, Joining points 1A, Data label of 4100 (4)	L4 DH
		[32]	

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QUESTION 4 [20 MARKS]			
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
4.1.1	5 by 4 or 4 by 5 arrangement ✓✓A	2A, Answer (2)	L1 MP
4.1.2	Diameter = 5cm × 2 ✓MA = 10cm ✓A	1MA, Multiplying radius by 2 1A, Correct diameter **AO** (2)	L1 M
4.1.3	Length = ——✓M = 5,1 = 5 cans ✓CA Width = —— = 4,3 = 4 cans ✓CA Height = —— = 3 cans✓CA Total = 5 ×4×3 = 60 cans ✓CA	**CA from 4.1.2** 1M, Dividing length by diameter 1CA, No of cans length wise 1CA, No of cans width wise 1CA, No of cans height wise 1CA, Total No of cans (5)	L3 MP
4.1.4	Height of box = ✓MA = 22 cm✓CA	1MA, Multiplying by 2 1CA, Answer (2)	L3 M
4.1.5	Distance = 80km/h × 2.5h ✓SF = 200 km ✓A✓U	1SF, Correct substitution 1A, Answer 1U, Units (3)	L2 M
4.2.1	Outcome – means the possible result of the probability events. ✓✓E	2E, Explanation (2)	L1 P
4.2.2	**P** = BSC ✓A **Q** = ROUND(R) ✓A	1A, Correct outcome 1A, Correct event (2)	L2 P
4.2.3	0% ✓✓A	2A, Correct answer (2)	L1 P
		[20]	
		TOTAL MARKS: 100	

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