KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

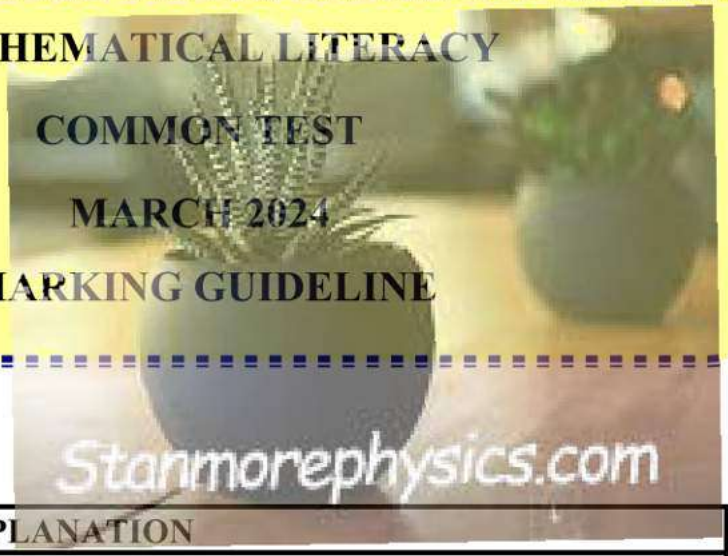
GRADE 11

MATHEMATICAL LITERACY

COMMON TEST

MARCH 2024

MARKING GUIDELINE



MARKS: 100

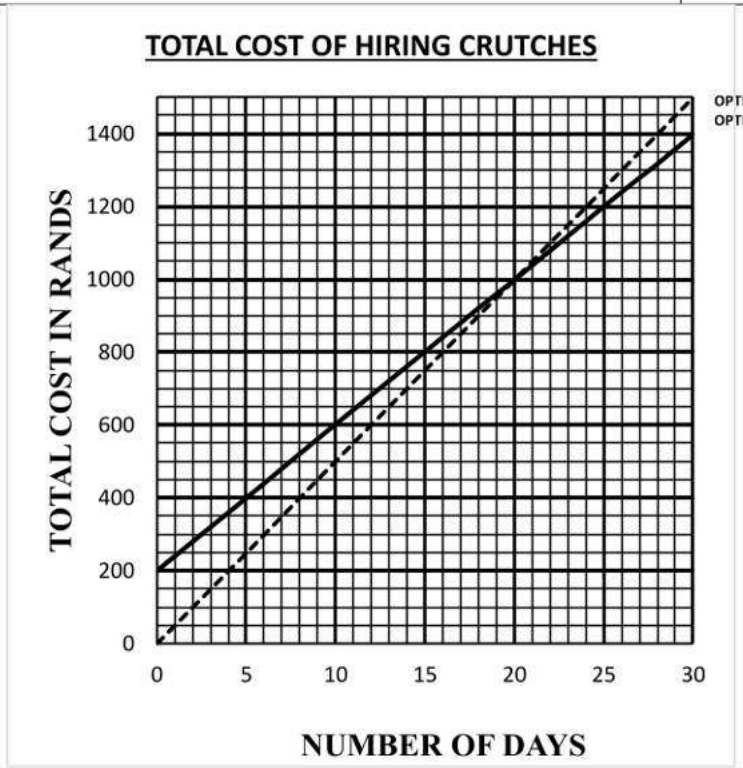
SYMBOL	EXPLANATION
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy (Answer)
C	Conversion
S	Simplification
RT/RG/RD	Reading from a table/ graph/ diagram
NPR	No penalty for units/rounding
SF	Correct substitution in a formula
O	Opinion/ reason/deduction/example
J	Justification
R	Correct Rounding
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] ANSWER ONLY FULL MARKS			
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
1.1.1	Total amount = R65×8 ✓M = R520 ✓A	1M, Multiplying by 8hours 1A, Amount received (2)	L1 F
1.1.2	No. of hours = $\frac{R325}{R65}$ ✓M =5 hours ✓A	1M, Dividing by correct rate 1A, No. of hours (2)	L1 F
1.1.3	✓✓M Overtime rate = 140% ×R65 =R91 **OR** ✓M Overtime rate = 40%×R65 + R65 =R26 +R65 ✓M =R91	1M, Sum of 140% 1M, Multiplying by correct rate **OR** 1M, Multiplying by 40% 1M, Adding R65 (2)	L1 F
1.2.1	Mbomvu MK ✓✓RT	2RT, Correct client name (2)	L1 F
1.2.2	Total due = R1300,00 ✓✓RT **OR** ✓M Total due = R300 +R300+R700 =R1300 ✓A **OR** ✓M Total due = R1130.44+R169,56 =R1300 ✓A	2RT, Correct amount **OR** 1M, Adding correct values 1A, Correct total due **OR** 1M, Adding correct values 1A, Correct answer. (2)	L1 F
1.2.3	Unit Price = R150✓✓RT **OR** Unit Price = $\frac{R300}{2}$ ✓M =R150 ✓A	2RT, Correct unit price **OR** 1M, Dividing R300 by 2 1A, Correct unit price (2)	L1 F
1.2.4	Saleesmac ✓✓RT	2RT, Correct Name (2)	L1 F
1.3.1	142g :156g ✓M 71:78 ✓CA	1M, Correct ratio and order 1CA, Simplified ratio form (2)	L1 M
1.3.2	3.6min ×60 ✓M 216 seconds ✓A	1M, Multiplying by 60 1A, Correct answer (2)	L1 M
1.3.3	Number of balls = 6 × 90 overs ✓M =540 balls ✓A	1M, Multiplying by 90 1A, Correct No. of balls (2)	L1 M
1.3.4	11:00 am ✓✓A	2A, Correct time format (2)	L1 M
			[22]

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QUESTION 2[32]			
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
2.1.1	Option A rental cost = R50 ×No. of days ✓✓A	2A, Correct formula (2)	L2 F
2.1.2	R1320 = R200 + R40 x No of days ✓SF Number of days = $\frac{R1320-R200}{R40}$ ✓M =28 days ✓CA	1SF, Correct Substitution 1M, Changing subject of the formula 1CA, No. of days (3)	L3 F
2.1.3	Option A cost = R50 ×25 =R1250 ✓CA Option B cost = R200 +R40×25 =R1200 ✓CA Valid statement. ✓J	1CA, Option A cost 1CA, Option B cost 1J, Correct opinion (3)	L4 F
2.1.4(a)	Cost in Rand ✓✓A	2A, Correct variable **Accept Option A OR Option B** (2)	L1 F
2.1.4(b)	**A** = $\frac{R900}{R50}$ ✓M =18 ✓A **OR** **A** = $\frac{R920 - R200}{R40}$ ✓M =18 ✓A **B** = R50×26 ✓MA =R1300 ✓A	1MA, Dividing by correct rate 1A, Correct no. of days OR 1MA, Subtracting R200 &dividing byR40 1A, Correct answer 1MA, Multiplying correct values 1A, Correct answer (4)	L3 F
2.1.4(c)		1A, Correct starting point 1CA, TWO correct pints 1CA, Joining point (straight line) 1A, Labelling the graph (4)	L3 F

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QUE	SOLUTION	EXPLANATION	L/T
2.2.1	consumption is the number of litres of fuel the truck uses to travel a certain distance. ✓✓E **OR** 6,9ℓ of petrol used by the truck to travel 100km. ✓✓E	2E, Correct explanation **OR** 2E, Correct explanation (2)	L1 F
2.2.2	No. of litres = $\frac{800km}{100km} \times 6,9\ell$ ✓M =55,2ℓ ✓CA =53ℓ ✓R	1M, Multiplying by correctly rate 1CA, Answer 1R, Correct Rounding (3)	L3 M
2.2.3	Total distance = 440×2 =880km ✓A Number of litres = $\frac{880km}{100km} \times 6,9\ell$ =60,72ℓ CA Invalid statement, 60 litres won't be enough. ✓O	1A, Total distance 1CA, No. of litres 1O, Justification. (3)	L4 M
2.3.1	Combination relationship ✓✓A	2A, Correct answer (2)	L1 F
2.3.2	C ✓✓A	2A, Correct answer (2)	L1 F
2.3.3	R700 ✓✓RT **OR** Cost = R200 +R10×50 ✓MA =R700 ✓A	2RT, Correct amount **OR** **CA from 2.3.2** 1MA, Correct substitution into the correct formula 1A, Answer (2)	L2 F
			[32]

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	QUESTION 3 [22]		
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
3.1.1	✓SF ✓C Volume = 20cm ×18cm ×10cm = 3 600cm^3 ✓A	1SF, Correct substitution 1C, Conversion 1A, Answer (3)	L2 M
3.1.2	Price of ONE tea bag = $\frac{R47,95}{100}$ ✓M = R0,48 ✓CA	1M, Dividing correct values 1CA, Answer **AO** (2)	L2 F
3.1.3	Number of slices = 150 ×4 ✓M =600 Number of breads = $\frac{600}{20}$ ✓CA =30 Number of dozens = $\frac{30}{12}$ ✓A =2,5 dozens ✓CA	1M, Multiplying by 4 1CA, No. of bread 1A, Dividing by 12 1CA, Number of dozens **NPR** (4)	L4 F
3.1.4	No. of white bread = $\frac{2}{5}$ ×30 ✓M ✓M =12✓CA	**CA from 3.1.3** 1M, Dividing by 5 1M, Ratio concept 1CA, Number of bread (3)	L2 M
3.2.1	✓RT 450°F ✓U	1RT, Correct reading 1U, Unit (2)	L2 M
3.2.2	°C= (450-32) ÷1,8 ✓SF = 418÷1,8 ✓S =232.22 ✓CA	**CA from 3.2.1** 1SF, Correct substitution 1S, Simplification 1CA, Answer. (3)	L2 M
3.2.3	✓RT Ounces = $\frac{700g}{28,3495g}$ × 1oz ✓C = 24,6917 ✓CA Correct statement ✓O, the mass can be rounded to the nearest ounces ✓J	1RT, Correct mass 1C, Conversion 1CA, 24,69ounces 1O, Opinion 1J, Reasoning. (5)	L4 M
			[22]

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	QUESTION 4 [24]		
QUE	**SOLUTION**	**EXPLANATION**	**L/T**
4.1.1	Diameter = 27inch – 24,3inches ✓M = 2,7 inches ✓A 2 ✓M = 1,35inches	1M, Subtracting inner diameter 1A, Difference 1M, Dividing by 2 (3)	L4 M
4.1.2	Radius is the half of the diameter of the button wall mirror. ✓✓E	2E, Explanation (2)	L1 M
4.1.3	Radius = 27inches 2 ✓M = 13,5inches ✓A	1M, Dividing diameter by 2 1A, Correct radius **AO** (2)	L2 M
4.1.4	✓SF C = 2× 3,142 ×13,5inches ✓S =84,834 inches × 2,54cm ✓C =215,48cm ✓CA **OR** ✓C Radius = 2,54 ×13,5inches = 34,29cm ✓SF ✓S C = 2×3,142×34,29cm =215,48cm ✓CA	1SF, Correct substitution 1S, Simplification 1C, Conversion 1CA, Circumference in cm **OR** 1C, conversion 1SF, Correct Substitution 1S, Simplification 1CA, Circumference in cm (4)	L3 M
4.2.1	12 months ✓✓A	2A, Correct months (2)	L2 F
4.2.1	Sales ✓✓A	2A, Correct source of income (2)	L1 F
4.2.3	Monthly bank fees = R1 080 ✓M 12 months =R90 ✓CA	**CA from 4.2.1** 1M, Dividing by 12months 1CA, Correct amount (2)	L2 F
4.2.4	✓A Rent, the rent stays the same for a long period/and is the type of expense that does not change ✓J	1A, Answer 1J, Reason (2)	L4 F
4.2.5	✓A Percentage = R520 500 × 100% ✓M R1 702 420 =30,57% ✓CA	1A, Correct total salaries 1M, Percentage concept 1CA, Percentage (3)	L3 F
4.2.6	✓M Time = 9:24+6hrs10min =15:34 ✓A	1M, Adding correct times 1A, Correct times **Accept 3:34 pm** **AO** (2)	L2 M
			[24]
		TOTAL MARKS:	**100**

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