

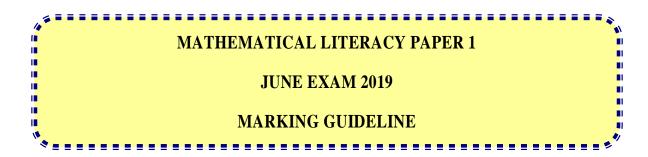
Education and Sport Development

Department of Education and Sport Development Departement van Onderwys en Sport Ontwikkeling Lefapha la Thuto le Tihabololo ya Metshameko

NORTH WEST PROVINCE

NATIONAL SENIOR CERTIFICATE

GRADE 12



MARKS: 100

SYMBOL	EXPLANATION
М	Method
M/A	Method with accuracy
CA	Consistent accuracy
А	Accuracy
С	Conversion
D	Definition
S	Simplification
RT/RG /RD	Reading from a table/Reading from a graph /diagram
F	Choosing the correct formula
SF	Correct substitution in a formula
0	Opinion/Example
Р	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off
J	Justification/Reason
NPR	No penalty for rounding OR omitting units
AO	Answer only

This marking guideline consists of 5 pages



Ques	Solution	Explanation	Level
.1.1	Vooma`s Petal 🗸	2A answer (2)	1
.1.2	October $\checkmark \checkmark$	2A answer (2)	1
.1.3	Total income = $R34 350 + R3 500 \checkmark$	1M adding	
	= R37 850 ✓	1A answer (2)	1
.1.4	Total amount deducted = $R4 200 + R500 + R2 750 + R6 500 \checkmark$	1M adding	
	$=$ R13 950 \checkmark	1A answer (2)	1
.1.5	Peter's Net pay = $R37 850 - R13 950\checkmark$	1M subtraction	
	$= R23\ 900\checkmark$	1A answer (2)	1
.1.6	Reduction of provident fund = R13 950 $-$ R860 \checkmark		
	$= R13\ 090$		1
	Peter's new Net pay = $R37 850 - R13 090$	1M subtraction	
	$=$ R24 760 \checkmark	1A answer	
	OR		
	Peter's new Net pay = $R23 900 + R860$	1M adding	
	= R24 760	1A answer (2)	
.2.1	Lower quartile = $78 \checkmark \checkmark$		
	Accept 77 or 79	2A answer (2)	1
.2.2	25 % ~	2A answer (2)	1
		1M Method	
.2.3	$Range = 98 - 68 \checkmark$	1A answer (2)	1
	$= 30 \checkmark$	Allow max	
		number 97 – 99	
		and min	
		number 67 – 69	
.3.1	George and Nelspruit ✓✓	2A answer (2)	1
.3.2	565 km ✓ ✓	2A answer (2)	1
.3.3	Arrival time = $11:00 + 3$ hours 20 minutes \checkmark	1M Method	
	= 14:20 ✓	1A answer (2)	1
			[24]
QUES	TION 2 [22]	-	
2.1.1	Stop order is an instruction to an employer or bank to pay / divert		
	monthly or transfer regularly a certain amount to a person or an account. $\checkmark\checkmark$		
		20 explanation	
		=	1

		Stop order is a future dated regular monthly deduction. $\checkmark\checkmark$		
		OR		
		Stop order is an instruction that an employee (individual) issue to the		
		employer (bank) to make a series of future dated regular deductions. $\checkmark\checkmark$		
Γ	2.1.2	Total $cost = main member fee + spouse fee + 3(children) fee$	3RT Adding	
		$= R65,00\checkmark + R48,00\checkmark + 3 \times R45,00\checkmark$	correct values	2
		$= R248,00 \checkmark$	1A answer (4)	

Deno: NW/JUNE/MATUT/ EMIS/6******

24,5 kg/m ² $\checkmark = \frac{36kg}{(Height in metres)^2} \checkmark$	1M new subject 1M finding sq. root	2
24,5 kg/m ² $\checkmark = \frac{36kg}{(Height in metres)^2} \checkmark$	1M new subject	2
24,5 kg/m ² $\checkmark = \frac{36kg}{(m+1)^2}$	1M new subject	
	values	
(Height in metres) ²		
$BMI = \frac{Weight (in kilograms)}{V}$		
percentage. She is at risk for overweight. $\checkmark \checkmark$	1A answer (2)	2
	-	
		1
	1	
		1
		1
= R9 822,81✓	1A answer (5)	
	U	
	1 year.	2
$= K9 137,50 \vee$		
	Ũ	
= R9 636,36	-	
= R9 636,3636		2
0,000	1.4	
$\pm 530,00 = \frac{2350,00}{0.055}$	TIVIA conversion	
£530.00	. ,	1
= ±10,49		
	Ũ	
$C_{ommission} = 1.080/(3) \times 6520.00$		
= 0,223 % V	•	
- 0 225 %		1
20 000		1
Percentage = $\frac{1}{20,000}$ \checkmark × 100 \checkmark		
45 400 100		
57.117		1
		1
	50 : 110 \checkmark 5 \checkmark : 11 \checkmark Percentage = $\frac{45}{20\ 000}$ \checkmark × 100 \checkmark = 0,225 % \checkmark Commission = 1,98% × £530,00 = £10,49 £530,00 = $\frac{£530,00}{0.055}$ = R9 636,3636 = R9 636,36 Amount after 1 year = R8 500 × 7,5% \checkmark + R8 500 \checkmark = R9 137,50 \checkmark Amount after 2 years = R9 137 × 7,5% + R9 137,50 \checkmark = R9 137,50 \checkmark Amount after 2 years = R9 137 × 7,5% + R9 137,50 \checkmark = R9 822,81 \checkmark STION 3 [20] 2 years to 20 years \checkmark It means that 15% of the girls weigh more than this girl and 85% weigh less. \checkmark This girl's BMI-for-age relationship is positioned between 85 th and 95 th percentage. She is at risk for overweight. \checkmark BMI = $\frac{Weight (in kilograms)}{(Height in metres)^2}$	$ 5 \forall : 11 \forall values 2A answer (3) \\ Percentage = \frac{45}{20\ 000} \forall \times 100 \lor IRT correct value IM multiplying by 100 = 0,225 % \lor $ IM multiplying by 100 = 1A answer (3) IMA calculating % = 0,225 % \lor IMA calculating % (3) IMA calculating % (4) = 1A answer (2) = 1530,00 = $\frac{5530,00}{0.055}$ IMA calculating % IA answer (2) = 1 MA conversion = R9 636,363 = 1 MA conversion = R9 636,36 = 1 MA conversion = R9 636,363 = 1 MA conversion = R9 636,363 = 1 MA conversion = R9 636,36 = 1 MA conversion = R9 137,50 \lor + R8 500

Deno: NW/JUNE/MATUT/ EMIS/6******

NW/June 2019

F	Perimeter of the waiting room = $\frac{2}{3} \times 25508 \text{ mm} \checkmark$ = 17 005,33 mm \checkmark	1M Method 1A answer (4) NPR	
3.2.2 3	000 mm = 300 cm	1C conversion	
- · · ·	9754 mm = 975,4 cm		
	Area = 975,4 cm \times 300 cm = 292 620 cm ²	1SF substitution 1A answer (3)	2
			[20]
OUEST	ION 4 [13]	L	
	VI and N3 \checkmark	2A answer (2)	1
	outh	$\frac{24 \text{ answer}}{2 \text{ A answer}} (2)$	1
	Woodmead, ✓ Sunninghill, ✓ Wynberg ✓	2A answer (3)	1
	Any two		
4.4	Distance		
]	$Fime = \frac{Distance}{speed}$	1CE substitution	
	speca	1SF substitution	
	22 km		2
	$=\frac{22 \ km}{125 \ km/h} \checkmark$		
	0.1761	1 CA answer	
	$= 0,176$ hours \checkmark	1C conversion	
	\approx 0 hour 10,6 minutes \checkmark	NPR (3)	
4.5 6	$6,5 \text{ cm}: 22 \text{ km} \checkmark$ OR $6,5 \text{ cm}: 22 \text{ km} \checkmark$	1 MA method	1
	0,000065 : 22 ✓	1C conversion	
	: 338 468,5 ✓ 1 : 966 666,7 ✓	1S simplification	
-		(3)	
		(3)	[13]
OUEST	ION 5 [21]		[10]
	A = 37 - 13	2A answer (2)	1
J.1.1	$= 24\checkmark$	274 diffs wer (2)	1
5.1.2	<u> </u>	1MA adding	
^{3.1.2} N	lean =	0	
	10	correct values	
	250		
	$=\frac{230}{10}$	1M dividing by	2
	10 🗸	10	
	or (
	$=25 \checkmark$		
		1A answer (3)	
	$0 \checkmark \checkmark$	2A answer (2)	1
5.1.4 0	2 5 6 10 15 20 24 33 35	1CA arranging	
		in ascending	
	10+15	order	
N	$Aedian = \frac{10+15}{2} \checkmark$		2
		1M method	_
	= 12,5×	invi incultud	
	-12, J	1Λ on (2)	
		1A answer (3)	

