NERI	NERDS EXAMINATION SERIES (MATHEMATICS DEPARTMENT)  MARKING GUIDE FOR PRIMARY LEAVING MOCK 2024 (MTC)				
NP		MARKS	COMMENT		
1.	SOLUTION 0505 5)2525	В	- Encourage		
	0x5=0 $25$ $5x5=25$ $002$		the use of Long division		
	0x5 = 0x = 0x = 25 $5x5 = 25 = 00$	A	- Follow the Order DMSB Divide Thong Mutiply Idivis		
	∴ 2525 ÷ 5 = 505 √		Subtract Subtract Bringdown		
2.	Sheep he had at first	8	- Getting the number of Sheep		
	+ 19 sheep 62 sheep		had at first		
	62 in Roman Numerals: 62 = 60 + 2		is the not think to be done.		
	62 = LX 11				
	62 = LXII /				
3.	Complement of $(x-50)^\circ$ Let the complement be $7$ $7 + (x-50)^\circ = 90^\circ$ $1 = 90^\circ - (x-50^\circ)$	BI	- Complementary angles add up to 90°		
	$7 = 90^{\circ} - x + 50^{\circ}$ $7 = 90^{\circ} + 50^{\circ} - x$		- Accept 90-(x-50)		
	$7 = 140^{2} - 30$ $7 = 140^{2} - 30$	A	Straight forward		

DN	SOLUTION MA	TEK COMMENT
4	reozen has 12 items.	- To-st to manusted-1
	Sh. 9000 (>> 12 books B)	- Teach to mouster-
	Sh.1 < > 12 books	the approach of
	Sh20000 > +2 + x3000	direct and indirect
		proportion to prevent
	Sh. 3000 ( ) 4 books 1	learners from
	4 books can be purchased	Confusing the two.
	at sh. 3000 V	
5	Length of the arc is	
	given to be 1256cm	
	360 = 1256 CM Q	- Follow through steps
	72 x2x3:14r =1256cm 360	
	+± 1 +2 x2x314r = 1256cm	
	360 180 30	Q
	10	- Revise concept of
	+ ×314r = 1256cm	Circles Vigorousty
	12567 X1000 = 1256anx1000	
	1000	
	$\frac{1256r}{1256} = \frac{1256000cm}{1256}$	
	r = 1000cm	For Correct answer
	1000CM	

NG			
6	SOLUTION +5	MARK	- For correct position
	+1+2+3+4+5+6+7+8+9+10+11 +8		of arows
	1: +53=+8	Ar	- For Summary.
7	63, 52, 45, 40, 437, 35	B	For determining next two numbers
	Difference H-L 37-35	A	- For finding the
\$.	157.5	BZ.	- Revise all reflex, complements and suplements of angles that can be constand without a protractor on sight
	(Jof4P)-P = 19 (JxH)-P = 19 2P-P = 19 P = 19	P)	- For following Bodinas order propert

QN	SOLUTION		
	$ \sqrt{74} = \sqrt{64} $ $ \sqrt{74} = \sqrt{64} $ $ \sqrt{74} = \sqrt{64} $ $ \sqrt{74} = 223 $ $ \sqrt{74} = 83 $ $ \sqrt{74} = 233 $	BI	- For numerator square noot and denominator voot separately - Answer must be put back to mixed numeral format.
	72 87 2 36 2 36 2 36 2 38 3 3 3 3 3 3 3 3 2 x2 x2 x3 x3 2 x2 x2 x3 x3	R	- Superseripts also mean powers. - Reject subscriptual form.
12.	18 HHA A A A A A A A A A A A A A A A A A	B	oneight

9N SOLUTION  13. 35° 90 = 135°  9+80°-80° = 135°  9 = 55°  9 = 55°	BI	Revice angles formed on parallel lines.
14. 144 three to base ten  [x32] + (4x3) + (4x3°)  (x32) + (4x3) + (4x1)  (x3x3) + (4x3) + (4x1)  9 + 12 + 4  25 ten  - 144 three = 25 N  - 144 three = 25 N	BI	Day to day, usual base, ordinary base, etc are words that can mean decimal base or base ten.
15. ST = ET = D 75 + 50 15 15 15 15 15 15 15 10:50  15. \$\frac{1}{12:00} - 2:25 \\ \frac{13:15}{10:50} \leftarred at \rightarred at \rightarred 10:50 am	9	for getting the starting time first

46	COLUTION	MARK	S COMMENT
	10 12 12 2 3	B	For correctly representing the Starting time on the clock force.
16	SOD = Mean		
	P+3+0+7 = 4	(B)	- For correct
	#xP+3+0+7 = 4x4 1T P+10 = 16		
	P = 16-10	A	- Fer correct
17.	Thousands   Units		
	Twenty thousand twenty four N	B	On right

(			
	SOLUTION	MARXI	COMMENT
18.	From;		- Encourage
	(1 011 1 ) = NO OF		moistery of
	(Lestnote-Istnote) = No of to notes	b	
	Serial no of the laterate	R)	Concept in all
	Serial no of the 1st notes		orreas.
	= hastnote - (100-1) note		
	= AP00157839		
	- 99	1	For coneat
	1220157740	AI	subpaction.
	APO0157740 V		
19.	SXSXS = V		
	53 =V		- Revise application
	53 = 2.25 m <sup>3</sup>	6	of Eguare root
	$\sqrt{5^3} = \sqrt{2.25 M^3}$	BI	and cube root
	F =		Similar in the second
	$\sqrt{5}^3 = \sqrt{225}  \text{M}^3$		involving
	153 = V225,5		Jeometri Cal
	$\sqrt{53} = \sqrt{225} M^5$	1	figures.
3	5 = 15 M	1	be encouraged
Willey !	S = 1.5m /	4 1	be encouraged to prime factorize first
	The cube is 1.5m long.		
			Control of the Contro

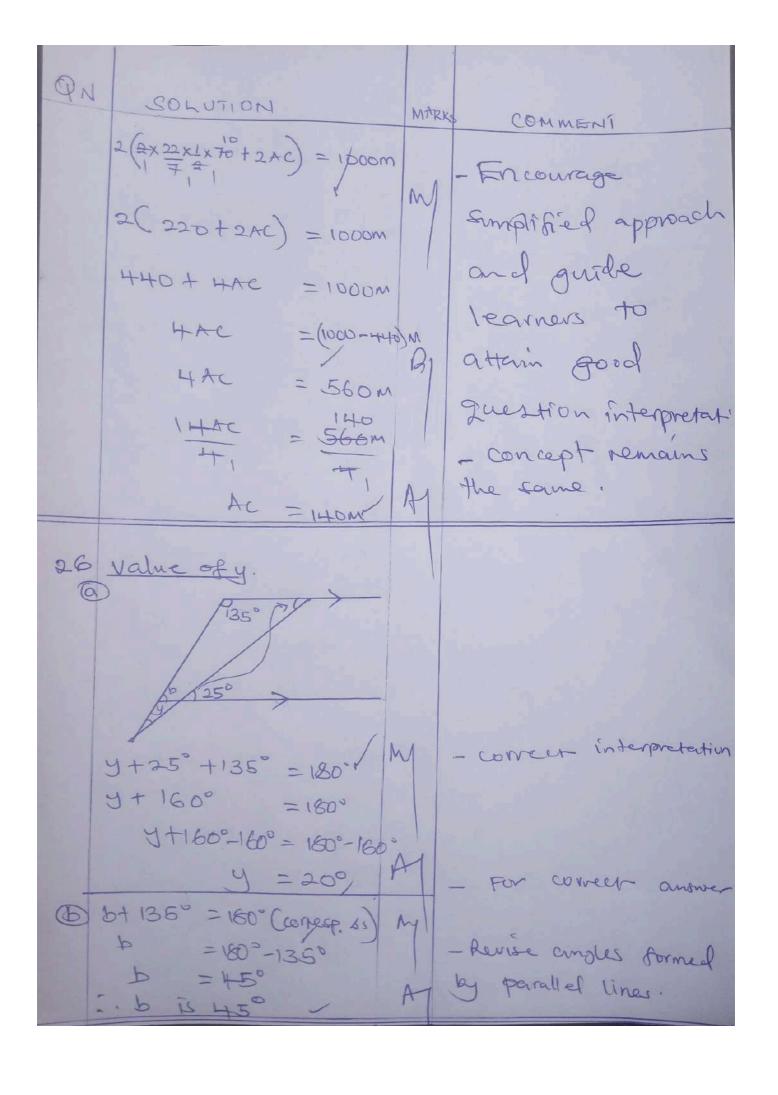
PN	EOLUTION	MARKI	COMMENT
20.	1011011011	POTES	Revise all lines
			of symmetry
			including
		0	alphenbetical
	1 Line of Symmetry.	102	letters
21			
9	Value of m.		
773			
17 1	n(H) only = Meither	M	- For correct
	18-M = 2M+3		interpretation
	18-3 = 2M-M		
41	15 = M V	X	- For correct cursue
6	Pupils who like only		
	one game.		
	=(5m)+(18-m)		
471	=(5 x15) H(18-15)	RI	Carrier Has
	= 75+3		- Gerting the
	= 7& Pupils		Chumber of wests Chupits who like
	Total mo of quero		only one game)
	(5 m)+(18-m)+(m)+ (2 m+3) (5x15)+(18-15)+15+(2x15+3)		
	15 + 3 + 15 + 33/	M)	For getting universal
7/3/3	126 pupils		set
	P = NOE = 78/		For some 1
	P = 78 (126)	A	writing the probability.
			The second secon

Amount spent in Ugsh  Wash 2275 = Ugsh 32275xxx0 p  Ksh 32275 = Ugsh 32275xxx0 p  Ugsh 1291,000  Ugsh 1291,000  Ugsh 4700 = 1 pounds  Ugsh 32900 = 3920  Ugsh 329,000 = Topoundselp  He received & TD from A  I Uss & Comment  Louise foreign  exchange redes  - Surple approach  Louithe (Local te  F-Fox (Foreign)  D-Dies (Divide)  S-Slowly (Settinger  F-Fire (Foreign to  L-Light (Local)  M-Much (Multiply ba  B-Brightness (Buying  Price)  Ugsh 329000 = 3920  Ugsh 329000 = 70 poundselp  He received & TD from A
TUS\$ = USSh 3 600  450 US\$ = USSh 3600  HSO US\$ = USSh 620000  Amount spent in USSN  KSh 1 = HO USandon shilly  KSh 2275 = USSh 32275 yers Pr  KSh 32275 = USS
The state of the s

QN SOLUTION	MARKI	COMMENT
23. 23+1+2+4) pupils = 10 pupils: V	191	oneight
b) Marx frequence 30% 3 3 90% 1 75% 2	7)	
The modal mark was 25%	3	For correct 'identification
Mean = $\frac{500}{NOD}$ / By		for correct
Mean = (80x3)+(10x1)+(75x3)+  25x4)  3+1+2+4		working procedure
Mean = 90+90HS0H00		- For correct addition and
Mean = 430 10		multiplication.
The mean score		
The mean scored was 43%.		For Sumany and

- GH	SOLUTION	MARK	3 COMMENT
24:	Fine John B Naboth		
	Now n+8 n	By	Summarising
	4415 nt8-4 n-4 V		given in formation on a simple
	Theratio was 4:3		table form simplif
	John B! Nabota = 4:3		s grocu 2
	n+4:n-4 = 4:3	1	
	$\frac{n+4}{n-4} = \frac{4}{3}$	14	- In terpreting
	n-4 3		The concept of
	3(n+4) = 4(n-4)		ration
	3n+12 = 4n-16		C Comparison of
	3n-4n = -16-12		Hems by divition
	$\frac{\pm n}{\pm 1} = \pm \frac{1}{28}$	6	
	n = 28 V		
	John bosco Naboth		
	n+8 = n /		
	28+8 = 28 years		
	36 years		

AN.	SOLUTION	MARKS	COMMENT
2460	there absent  When $(-\frac{1}{6})$ were present $\frac{6}{6}$ - $\frac{1}{6}$ = $\frac{5}{6}$ were present		For fraction present.
	No of children in the  Class  = 35; 5  = 35 x 6  = 42 pupils  - were obsent	87	- Getting the total number of pupits in the class.
	Le pupils were absent  Le pupils were absent  Pupils present  +2 pupils - spupils  36 pupils.		Ato getting the fraction present and working out that fraction of the potal he is correct.
	Perimeter X2 = 1000 m ATC + AC + ATC + AC = P 2 (2ATCS + 2AC) = 1000 m	191	



PN SOLUTION	MARKS	COMMENT
Sketch.  Then Then Then Then Then Then Then The	S	The sketch Carries a mark That's why It is Very vital.
440n F XC1 450 S 8Cm / S1 5	C2	- construction of 90° and 45° (one mark@) - correct sides (Imark)
Area $\frac{Accept}{3.9 \text{ cm}}$ $A = \frac{1}{2}h \text{ Ca+6}$ $A = \frac{1}{2} \text{ Accept}$ $A = \frac{1}{2} \text$		- For correct method
$A = 2 cm \times 12 cm$ $A = 2 cm \times 12 cm$ The Area is $24 cm^2$	A	- The answer may varry depends on the Length UT por getting the right answer.

Dal			
PN	SOLUTION	MARKS	COMMENT
25	39+2 (b-c)		
	3x1+2(3-1)		
		M1	Follow Iknough
	3x++2(3-1)		
			steps.
	$\frac{3}{2}$ + 2 $(\frac{2}{4})$		
	3-1-2×2		
	2 4-2		
	3 + 1		
33.4	2		
	3+2	*	
E. Con	=5	1	- Answer must
	= 5 /	H	be surplified.
112	= 2 ½		
6)	5(3n-1)-3(n-1) = 22	10.1	
300	15n-5-3n+3=22		· Correctly Collectif
A POST	151-31+3-5 = 22		like terms involving
	12n-2 =22		Crossing equal
18-10	12n =22+2		Sign.
	$\frac{1}{12} = \frac{2}{12}$	181	
	n = 21		- For answer.

9N SOLUTION	MARKS	COMMENT
350 143 six to base 10    143 six to base 10   143 six to base 10   143 six to base 10   16 x 6 + 4 x 6 + 4 x 6     1		- In division of berse's esp. when they are the Seame. Changing them to base 10 is a must and after Changing back to the given base In case the bases are different the answer an Stay in base

DN SOLUTION	MARKS	COMMENT
29 b) (5x109) + (4x109) + (2x103) +		
(2x100000) + (4x10000) +		
(2×T) + (3×T)		
0.02 + 0.003		
5000000.000	2.1	correct arrangens
t 40000.000 V 0.020		beads to the
5,040,000·023 V	14	right answer.
30 g) Total dutance = 460km Total time without Stops		
7 = 0		
7 = 2+60KM	B,	Getting total
7 = 73hrs V Total time on stopovers	1	time terken Ther applying the
= 4×40 min = 160 min		ioncept of duration.

MB MARKS COMMENT SOLUTION Time for the whole towney 160min +73hr 2hr 40min + 7hr 40mm 2:40 10hr and 20min Arrival time in kampala 8:00 hr 10:20hr 18 20 hrs 18:20 -12:00 6: 20 pm He arrived kampeda at 6: 20 pm. A B) 80% of the Journey - Alearner must first =(80 × 460) km Know what 80% RI but I Litre was of the Journey used in every 15 km re present

DN	SOLUTION	MARKS	COMMENT
	15 km ←> 1 Litre  1 km ←> (1/5) Litres  (80 x + 60) ←> (80/460 x 1)  (100 km (100 15)  80% of ←> (368) Litre  Hourney  Journey		Here you may
	Boilo of the journey would cost shaqoo x 368		learners to let it be the weny it is and get down with the calculation.
	Sh. 95,680	A	
C	Time token would be: T=D S5% T= 460 180=53/4hrs	By	Le would take.

QN	SOLUTION	Mila	COMMENT
	He would arrive Kampala at  8:00 am +53/4 hrs  8:00 am +5hr +5mm  8:00 \ 5:45  13:45  12:00  1:45pm	Å	- The answer should be in a 12hr clock  For correct answer.
	Principal Cmoney borrowed)  Amount = P + 1  Amount = sh 450,000  sh450,000 = (PRT) + P  sh450,000 = (PXZ/2 X5) + P  sh450,000 = (PXZ/2 X5) + P  sh450,000 = (PXZ/2 X5) + P		The woning procedure.

ON SOLUTION	MRX	COMMENT
9450,000=(Px5x1 x5)+P		
Sh459000 = P + P		
Sh450,000X8 = PX8+9X8	8	
Sh459000X8 = P+8P		The units should
48 60·		be properly placed
Sh:3600000 = 9P		
\$1-3600000 = 9P		
9,		
Sh 400,000 = P		
- He borrowed on 400,000	A	For correct
DI = PXRX7	1	
$I = SH400,0000 \times 10 \times 2$	4	For finding interest
I = 8h&0,000		first
A = Sh 480,000 / A = Sh 480,000 / He would pay sh 480,000	A	For finally getting the amount.

		A. I	
JN	SOLUTION	MRK	Comment,
32.	Ne of poles = perimeter		In closed
9	Interval		Shapes we
	No of poles = 2CL+W)	m	don't add or
	No of poles = 2 (120+50).		Sub tract
	IOM		anything,
	No ofpoles = 2x170m		We deal
	No Croles - a 11		normally.
	No of poles = 340m		
	No of poles = 34	A	
<b>(D)</b>		4	Reject
	1 pole (>> sh27000 / 1		200/20 = Sh 2700 Accept
	34poles (-> sh27000 x34		2 poles coa mazon
TO		M	
	34 poles (> 5/459000)		
0	A = 2C1	M	- Correct method
	$A = L \times \omega$ $A = 120 \text{ m} \times 50 \text{ m}$		
	A = 6000M2	M	Area is in
	**END**COMPILED	60 NB	1316438 (Mic DEPT)