N. TUSHABOMWE DAVID NDINDI RUBABO COUNTY RUKUNGIRI DISTRICT



PRE - P.L.E ASSESSMENT - 2023

MATHEMATICS



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District ID No.					

Read the following instructions carefully:

- 1. Do not write your school or District name anywhere on this paper.
- 2. Section A has 20 questions (40 marks)
- 3. Section B has 12 question (60 marks) Attempt ALL questions.
 - All answers to both sections A and B must be written in the spaces provided.
- 4. All answers MUST be written using blue or black ball - point pen or ink. Diagrams should be drawn in pencil.
- 5. Unnecessary changes of work may lead to loss of marks.
- 6. Any handwriting that cannot easily be read may lead to loss of marks.
- 7. Do not fill anything in the boxes indicated

"For examiner's use only".

FO	R EXAMIN	NERS' Y
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		1
21 – 22	and the second	
23 – 24		X.7-74
25 26		Links
27 – 28		
29 – 30	E. CHES	
31 – 32		
TOTAL		

Sponsored by Hon. Tushabomwe David Ndindi Tel: 0392163584 / 0775806375 PRE - PLE Mathematics - 2023

SECTION A (40 Marks)

	SECTI	<u> </u>	
1.	Workout: 21 ÷ 3		Solve: 7 + x = 11
3.	Express 125g as a fraction of a kilogram.	4.	Change 1010 _{two} to base ten.
			2.3
5.	Work out 1½ - 2/3	6.	If set P = {1, 2, 3, 4} and set M = {1, 3, 5, 6, 7}, find n(PUM)
7.	The cost of 6 counter books is sh. 45,000. Find the cost of 4 similar books.	8.	On the diagram below, find the bearing of P from R.

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	Find the sum of the 3 rd and 5 th triangular numbers.	10.	In a class of 45 pupils, the ratio of girls to boys is 3:2. How many boys are in the class?
11.	Work out the median of the following numbers. 0, 3, 6, 2, 5, 1 and 4.	12.	If $P = r$ and $r = 4$, $q = 3$, evaluate $\frac{pq}{r}$
13.	calculate the length of the third w	ire.	Two of the wires measure 44cm each,
			end methods and to deposit of the granders for the section of the
14.	Kapere paid sh. 36,000 for a shirt the discount?	r which	n was at 10% discount. How much was
		DDE DI	E Trial Set II 2023 Page 3

	15	Simplify: 2(7 - p) - (8 - 9)	16	The hands of the clock face below show the evening time. Write the time show in a 24 hour clock system.
のできます。 これの一番のできませんのできる。 他のできないできません。 これのできます。 これのできません かんしょうかん かんしょう これの	17.	Samalie deposited sh. 1,200,000 in a bank which offers a simple interest rate of 9% p.a. calculate the simple interest Samalie earned after a period of 7 months.		Write the Mathematical statemer represented on the number lin below.
· · · · · · · · · · · · · · · · · · ·	19.	The width of a rectangular garden is 7 metres shorter than its length. If the garden has a perimeter of 62 metres, find the width.	True	What number was expanded to give, 3×10^4)+ (7×10^2) + (8×10^1) + (6×10^0) ?
· 大方	95.4	Mathematics PRE	- PLE Tria	al Set u
		 THE PROPERTY OF THE PROPERTY OF	11	TOUT II AA

23.	Given the	exchange	rates	below.

Currency	Buying in Ug Sh.	Selling in Ug Sh.
1US Dollar (\$)	3,700	3,800
1 Euro (€)	4,200	4,300
1 British pound (£)	4,600	4,700

- (a) A trader exchanges Ug Sh. 2,280,000 for dollars (\$). How much did he (2marks)
- (b) A tourist exchanges £301 for Euros. How many Euros was he given? (3marks)

- Kizito bought a blanket which he later sold to Kalumba at sh. 84,000 making a profit of 20%. Kalumba also sold the same blanket to Kakaire making a loss of 24. (3marks)
 - (a) How much money did Kizito buy the blanket?

SECTION	D.	na)	Marks
SECTION	D.	VV	

In a class of 50 pupils, 40 like Mathematics (M), 25 like Science (S), K like both

subjects while 2 like neither of the two subjects. (a) Use the above information to complete the venn diagram below.

(2marks)

k

(b) How many pupils like both Mathematics and Science?

(2marks)

(c) How many pupils like Mathematics only?

(2marks)

22. A rectangular tank measuring 60cm long by 40cm wide by 50cm high is full of water.

(a) What is the volume of water in the tank?

(2marks)

(b) If 24 litres of water are removed from the tank, what will be the height of the remaining water in the tank? (3marks)

(b) How much wo	as Kalumba'				
C KK	, ballibu	\$ (520)		,	(2marks
		which is a	OF 8		Account to 1 to
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Plosow LALTE		de T		ananoj ka	
is es		inna			1.q0£.S1
	,	ANIMARTHE STATE	401 apredat	this smit in	AVITA (III)
N .					
Given that PF 36	$6 = 2^2 \times 3^2$	and PF 54 -	21 × 23 ,10	o the prime	factors to find
(a) GCF of 36 ar	nd 54	(2monto)	(L) (CM -	t 24 and 51	(2marks
		(Zmarks)	(b) LCM c	of 36 and 54.	(2)114111
					-
nmil swiss. A	y same	W J bas		Surpaind of the	BD (n,
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				*	
		:	trausans an	d a sweater (osts a third as
6. A shirt costs h much as a pair	alf as much	as a pair of	L cost of buy	ina a shirt ar	nd a <mark>sweater</mark> is
	- C dammerone	I t the lolu	COSI OI DAY	1119	(4marks
sh. 42,500, wo	ork out the	cost of the p	air of frouse		
		- أسأي ي			
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5) 21 116					
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5				*	
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		athematics PRE -		2022	Page

91.43 E.S	12.10	2.20	and dre	we to Lyar	itonde at	a speed ag
27.	Deborah left Mbaran	a at 8:30a.m	and die	s nasted f	or half a	houn a
	80km/hr for one hor resumed her journe	in and 30 minil	ites. On	6 163166	o,	Inph
	12:30p.m.					

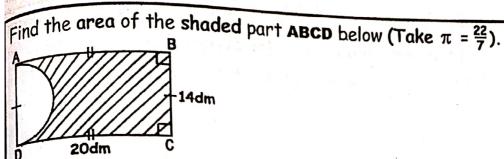
(a) At what time did Deborah leave Lyantonde?

(2marks)

(b) Calculate Deborah's average speed from Mbarara to Masaka. (4marks)

30.

If y = 2(x + 1), complete the table below. 28. (5marks) 0 -3 10



(a) Workout: $101_{two} \times 11_{two}$.

(b) Solve: 203k = 38_{nine}.

(2marks)

(5marks)

(3marks)

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31.	When marking a test of 20 questions, a teacher awarded 5 marks for every wrong answer got correct answer got but deducted 2 marks for every wrong answer got (a) A boy got 17 correct answers. What mark was he given?	(2marks)
	(a) A boy got 17 correct answers. What make the	(rarks)
	Cavina did che giva	
	(b) If Namata got 44 marks, how many wrong answers did she give?	(3marks)
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		4 (a) H
32.	Using a pair of compasses, ruler and pencil only; (a) Construct a triang	
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	where $PQ = 6.5$ cm, angle $PQR = 45^{\circ}$ and angle $QPR = 60^{\circ}$.	(4marks)
	Using a pair of compasses, ruler and pencil only; (a) Construct a triang where PQ = 6.5cm, angle PQR = 45° and angle QPR = 60°. (b) Measure the length PR.	