ENTERBE PRIVATE SCHOOLS EXAMINATION ASSOCIATION

P.L.E. MOCK EXAMINATIONS, 2023

MATHEMATICS

Time allowed: 2 hours 30 minutes

INDEX NO.	
Candidate's name:	and the set in the black of the
Candidate's signature:	
District Name:	
SECTION A (40	MARKS)
1. Add: 1 + 99	1 * * * * *
area and give the many were seed and where	
2. Simplify: 3a + b - 2a - 5b	STATE OF THE STATE
 Given that: K = {p,r,o,m,i,s,e} and L = {m,a,r,; 	l.i.n.s). Find n(KnL)1
send the sent of a series to the least one	The second second free second
4. Express 30 m as a percentage of $\frac{1}{4}$ km	
emplant collections have more receipt	arterior of the section of the s
	V= 20

5. Write: Four hundred twenty three in Roman numerals.

6.	Shade	3 of	the	diagram	tielon
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- 7. What number has been written in standard form: 6.37×10^{-3} ?
- 8. Workout: 33na × 21na
- 9. Find the square of the next number in the sequence below:

- 10. 15 men can dig a garden in 8 days. How many less men are needed to dig the same garden in 10 days?
- 11. In a P.7 class, $\frac{3}{5}$ of the pupils are girls and the rest are boys. If there are 24 boys, how many pupils are in the class?
- 12. Using a ruler, a pencil and a pair of compasses only, bisect angle LMN in the figure below.

Entebbe Private Schools Examination Association

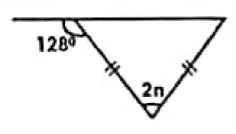
14. In Mbale Cinema hall, 150 more women than men attended a show. The ratio of male to female was 3:5 respectively. How many people attended the show?

16. Find the number whose expansion is given below: $(2\times3^3) + (1\times3^3) + (2\times3^9)$



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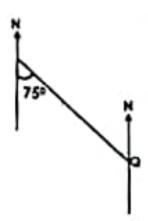
17. Find the value of n in the figure below.



- 18. The average weight of 5 boys is 20.8 kg and average weight of 3 of them is 22kg.
 What is the average weight of the two other boys?
- 19. A trader sold an article at sh.68,000 making a loss of sh.12,000.

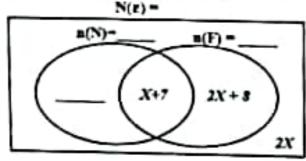
 Calculate the trader's percentage loss.

20. In the figure below, find the bearing of town P from town Q.



SECTION: B.

- 21. In a class, 31 pupils play only one type of game, (3x + 3) pupils play football (F) only. (x+7) pupils play both football and netball, (2x +8) play netball (N) only and 2x play neither of the given games.
 - a) Represent the above information on the given Verm diagram below. (3 marks)

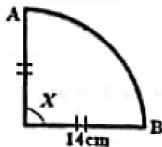


b) Find the value of x (2 marks)

22. (a) Express 0.233_____ as a common fraction in simplified form. (2 marks)

b) Work out: 1.44 × 3.6 (3 marks)

Given that the area of the sector below is 154cm² and its radius is 14cm.
 Use it to answer the questions that follow.



a) Work out the value of x in degrees. (3 mark).

b) Calculate the length of the arc AB

(2 marks)

24. The table below shows the rates in Uganda shillings at which different currencia are bought and sold at a forex bureau. Study it carefully and answer the questions that follow.
(2 marks)

	(< marks)
SELLING PRICE	BUYING PRICE
UG.5Hs 32	U6.5Hs 30
UG.SHs 3600	UG.SHs 3560
	UG.5Hs 32

- a) How much will a trader from Uganda pay for a smart watch sold at Ksh. 25,000?

 (2 marks)
- b) How much Kenya shillings can one get with US \$ 400? (3marks)

25. a) If today is Wednesday 12th July, 2023. What day of the week will 18th September of the same year be? (3marks)

b) Solve: 3m - 1 = 0 (finite 7). (2marks)

26. The table below shows a journey by Y.Y buses from Kampaia to Sproti.

TOWN	Arrival	Departure	Distance	
Kampala		8:00am	0	
Iganga	10:15am	10:25am	145Km	
Mbale	11:50am	12:20pm	210Km	
Soroti	4:30pm		340Km	

a) What time did the bus leave Mbale for Soroti in 24-hour clock?

(I mark)

- b) How far is Scroti from Iganga? (Imark)
- c) Workout the average speed of the bus for the whole journey. (3 marks)

along the state of the state of

- Town L is 400km from town M on a bearing of 075° and town N is 300km from town M on a bearing of 330°.
 - a) Draw a sketch showing the three towns.

(I mark)

ь) If lcm = !	50km, draw an accura	te diagram showin	g the three to	wns. (3 marks)
•	, -,		9 - 11 9		H
			18.7		
		- ()		-27	271
		49.7			
	(Frank)	20 1 1 1 1 1			p = 1 4 2 =
c)	What is the	shortest distance b	etween town N ar	nd town L? (1	mark)
	tebbe Municip there are 18	secondary schools to vality is 4:1:7 respect more Primary schools hools are in the Muni	ively. than Secondary		chools in (3marks)
(Print				" - In one	4. 94
			U-0, 41-11, 7-1	TI -0; T fi	ari end
ь)	What percen	tage of the schools o	are secondary sch	ools?	(2marks)
	:*				
Entel	e Private School	Francisco Association			7

29. (a) Solve:
$$\frac{10}{y} + \frac{2y}{4} = \frac{12}{y}$$

(3marks)

b) Given that p= -2, q = 3 and r = 4.

Find the value of $\frac{p+qr}{pr}$

(2marks)

A trader banked money in Finance Trust Bank which offers 3½ interest rate per year. If her account had an amount of sh 182,100 after a period of 4 months. Calculate the maney she banked. (4 marks)

 Mutebi went to the market with 5hs. 40,000. He bought the items shown in the table below. After paying for all the items, he remained with 5h. 6,000.
 Complete the table.

(émarks)

Item	Unit cost	Total cost	
litres of milk.	5h.2,000 per litre.	5h,5,000	
3 loaves of bread	5hper loaf.	5h	
2Kg of sugar	Sh. 5,500 per Kg	5h	
Total expenditure		Sh	

32. On the grid graph below.

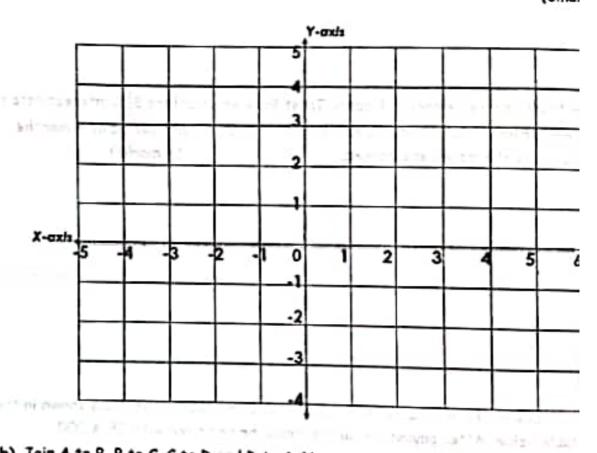
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(a) plot the following points. A (-4, -2), B (2, -2), C (5, 1) and D (-1, 1).

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A company to a firm the four terms.



b) Join A to B, B to C, C to D and D to A. Hence, name the polygon. (1 mark)

c) If 1 square represents 1cm², calculate the area of the figure formed. (1 man