LIRA CITY EXAMINATIONS BOARD MOCK EXAMINATIONS 2023 MATHEMATICS PAPER

TIME ALLOWED 2 HOURS 30 MINUTES

	SCHOOL EMIS			PERSONAL NUMBER			
INDEX No.							
CANDIDATE	'S NAM	E:					
CANDIDATE	'S SIGN	NATURE:					
SCHOOL N	AME:						
DIVISION						••••	

Read the following instructions carefully

- This paper has two sections A and B.
- All the working for both sections A and B must be shown in the spaces provided.
- All working must be done using a blue or black ball-point pen or fountain pen.
 Diagrams should be drawn in pencil.
- No calculators are allowed in the examination room.
- Unnecessary changes of work may lead to loss of marks.
- Any handwriting that cannot be easily read may lead to loss of marks.
- Do not fill any thing in the boxes indicated: "For Examiners" Use only.

FOR EXAMINER'S USE ONLY					
QN NO.	MARKS	EXR'S NO.			
01-05					
06-10					
11-15					
16-20	1				
21-22					
23-24					
25-26					
27-28					
29-30					
31-32					
TOTAL					

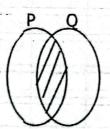
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SECTION "A" (40 MARKS)

- Work out: 239 109
- 2. Write "three thousand thirty one" in figures

3. Simplify: 3ab + 2a - ab- 6a + 3a

Describe the unshaded part in the diagram below.



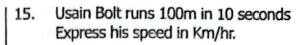
- A girl scored the following marks in a series of tests: 60, 45, 50, 60, 75, 80, 60 and 70. What was her modal frequency?
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- 6. A mathematics lesson that started hat 11:40am and ended at 1: 00pm. How long was the lesson?
- 7. Evaluate $3^{1}/_{2} = 2^{1}/_{4} + {}^{1}/_{4}$

SECOND SECTION OF THE SECOND

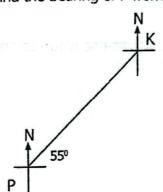
8. A trader bought 10 litres of cooking oil. He is to sell it in sackets of 250ml. How many sackets will he get?

 Using a ruler and a pencil, draw a line segment AB which is 7.5cm long. IO. Find the sum of frist 5 prime numbers | 15.



11. Expand 125.86 using powers of 10.





12. Simplify: -5 - 7

- 13. Work out (72 ÷ 9) + (36 ÷ 9) using distributive properties
- 17. Given that 1ksh = Ugshs 35 and IUs dollars (\$) = Ug sh. 3500, How many dollars would a phone bought at 45000Ksh cost?
- The mean of 14, 4a, 18 and 12 is 15.
 Find the value of a.

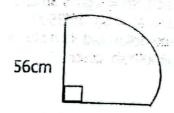
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P.7 MTC 2

18. There is enough food to last 20 days for 80 girls. How long will the same food last for 200 girls?

19. Solve and list the solution set for P. $14 - 3p \le 38$

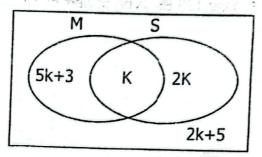
20. Workout the total distance around the figure below. (Take π as



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SECTION B

 The venn diagram below shows number of pupils who participated in mathematics contest (M) and spellling Bees (S). Use it to answer questions that follows.



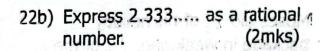
If the number of pupils who participated in a competition is atleast thrice those who didnot participate in any. How many pupils participated in spelling Bee?

(5mks)

22a) Work out: 0.36 x 0.12

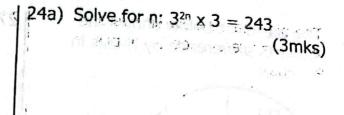
0.08 + 0.28 (3mks)

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Section British Section for

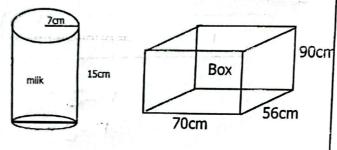
Paris Calors Mad 19 migning



23. Tins of milk measuring 7cm in radius and height of 15cm are to be packed in a box of length 70cm, width 56cm and height of 90cm.



(zylics)



a) How many layers will fill the box? (2mks)

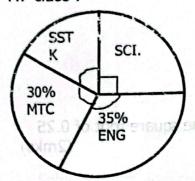
If she was given a 10% and she used transport,
Will be packed in the first four layers.

(3mks)

If she was given a 10% and she used transport,
How much money returned with having shs. 50000 note?

25. A mother went to the market and bought the following items.
2kg of rice at shs. 4000 per kg
12 tomatoes at shs. 500 for every four tomatoes.
2 litres of cooking oil at sh. 14,000.
5½ Kg of beans at sh. 3,000 per kg
If she was given a discount of 10% and she used shs. 5000 for transport,
How much money did she returned with having gone with shs. 50000 note? (6mks)

The pie-chart below shows the 26. subjects preference by pupils in P.7 class.



Find the value of K. a)

(2mks)

If 50 pupils like Science, How b) many pupils are in the class? me and galved day bear (3mks)

A mother went to the market and bought the following items. 2kg of rice at shs. 4000 per kg

12 tomatoes at sits. 500 for every

5 Kg of beans at sh. 3,000 per kg If she was given a discount of

sns 50000 notes (firmes

- Moses did 1/5 of his holiday 127. package in week one, 1/6 of the remainder in week 2 and the remaining 20 pages was done in the third week.
- What fraction was done in the a) (2mks) third week?

and milk measuring rom in radius

our reignt of 15cm are to be packed

a DOX of length 20cm, width Spen

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How many pages was done in b) ____ week one? (3mks)

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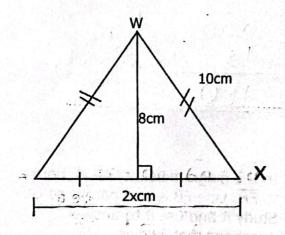
P.7 MTC5

b) Calculate the size of angle BGF.

(3mks)

31. Work out the area of the figure below

(4mks)



32. Given that y = 2x - 1, complete the table below.

(1 mk each

X	P*	. 3		-1	-3
Y	5	(But of	7		

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P.7 MTC7