OSEB EDUCATIONAL CONSULT KAMPALA

PRIMARY LEAVING EXAMINATION SPOT ITEM 2

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.		Random No.				Personal No.				
THUCK ITO.										
Candidate's Nam	e:									
Candidate's Sign	ature:									
School Random	No:									
District ID:										

Read the following instructions carefully:

- Do not write your **school** or **district name** anywhere on this paper.
- This paper has two sections A and B. Section A has
 questions and section B has 12 questions.
 This paper has 12 pages printed altogether.
- Answer all questions. 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 ink. Any work done in pencil other than graphs and diagrams will <u>NOT</u> be marked.
- 5. **No calculators** are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting that cannot be easily ready may lead to loss of marks.
- Do not fill anything in the box indicated: "FOR
 EXAMINERS' USE ONLY" and the boxes inside the
 question paper.

FOR EXAMINERS'							
USE ONLY							
QN. NO.	MARKS	EXR'S					
		NO					
1 - 5							
6 - 10							
11 - 15							
16 – 20							
21 – 22							
23 – 24							
25 – 26							
27 – 28							
29 – 30							
31 – 32							
TOTAL							

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Turn Over

SECTION A: 40 MARKS

Answer **all** questions in this section

Questions **1** to **20** carry two marks each

1. Subtract 19 from 20.

2. Change 131_{four} to base ten.

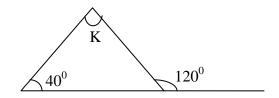
3. Add:
$$-3 + -7$$

4. If
$$x = -4$$
, $y = -5$ and $z = \frac{1}{2}$, evaluate $xy \div z$

5. Prime factorise 36 and give your answer in product form.

6. Express $7\frac{1}{2}$ % as a proper fraction in its simplest form.

7. Study the diagram below and find the value of K in degrees.

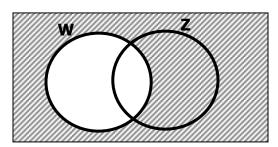


8. Find the square root of $1\frac{11}{25}$

9.	Change	12:40pm	to 24	hour	clock	system.



11. Describe the shaded region in the set below.



12. In a group of 40 pupils, 15% are girls and the rest are boys. Find the actual number of boys.

13. The area of a circle is 154mm². Find its radius.

14. Work out: 3 9 8

x 1 2

15. Given that A = 2x + 4 and B = x + 10. Solve for x if A = B

16. Change $\frac{1}{8}$ to a decimal fraction.

17. Find the range in: 8, -12, 0, 6 and 13

18. The village chairman was 45 minutes late for the village meeting which had started at 9:30am. At what time did the Chairman arrive for the meeting?

19. Mugalu drove **LX** *km* to the hospital and then drove for **XCV** *km* back home. What distance did he cover in Hindu Arabic?

20. Work out : **Hours Minutes.**

SECTION B: 60 MARKS

Answer all questions in this section

Marks for each question are indicated in brackets

21. (a) Using a ruler, a pencil and a pair of compasses only, construct a kite STUV in which ST = SV = 5.5cm, SU = 11cm and TV = 6cm. (4 marks)

- (b) Measure length TU.cm (1 mark)
- 22. (a) Solve the equation: $2 \frac{2x}{3} = 4$ (2 Marks)

(b) Simplify:
$$\frac{2}{3}(6w - 3) - \frac{1}{2}(4 - 2w)$$

(3 Marks)

23. Kiiza went shopping and bought items;

How much did she spend buying;

a) 13 loaves of bread at shs. 39,000?

(1 Mark)

b) $1 \frac{1}{2}$ kg of rice at shs. 3000 a kg?

(1 Mark)

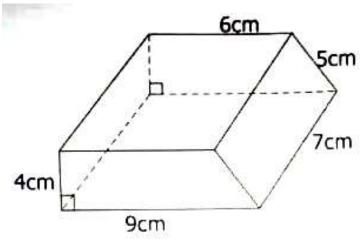
c) 500gm of millet flour at shs. 2800 per kg?

(2 Marks)

d) 3 ½ litres of cooking oil at shs. 1800 per half a litre? (1 Mark)

24. The figure below shows a trapezoidal prism. Use it to answer the questions that

follow.



(a) Find the volume of the figure.

(2 Marks)

(b) Work out the total surface area.

(3 Marks)

25.

(a) Solve :
$$\frac{(x-2)}{2} = \frac{(x+2)}{3}$$

(2 Marks)

- (b) Pingu is twelve years older than Wingu. In 8 years' time, their total age will be 48 years.
- (i) How old is Pingu now?

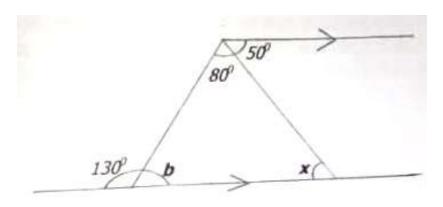
(2 Marks)

(ii) How old will Wingu be in fifteen years' time to come?

(2 Marks)

26. (a) If 2y and 3y are complementary angles. find the value of y. (2 Marks)

(b) In the figure below, find the size of angles a, b and x.

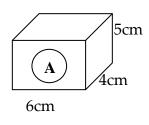


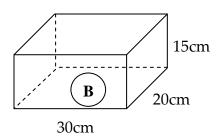
(i) angle b (2 Marks)

(ii) angle x (2 Marks)

27.	In a group of customers that entered NAKU'S restau	urant, $\frac{3}{8}$ ordered for rice, $\frac{1}{5}$	of
	e remainder ordered for matooke while twenty order What fraction of the customers ordered for;	red for posho.	
,	i) Matooke	(1 Mark)	
	ii) Posho	(1 Mark)	
b)	How many customers in total entered NAKU'S restai	urant? (3 marks)	
28.	(a) Change 72km/hr to m/s.	(2 Marks)	

29. How many cubes of type (A) can be packed in the box of type (B) below?





a) How many small boxes filled the carton?

(3 Marks)

b) Work out the volume of empty space left in the carton. (3 Marks)

30.	(a)	Given	the	number	4932,	expand	it	usina:
50.	(4)	CIVCII	CIIC	Harribei	1332,	скрапа		usii 19,

(i) powers of ten

(1 Mark)

(ii) values

(1 Mark)

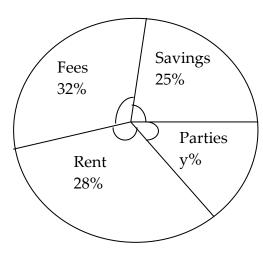
(iii) place values

(1 Mark)

(b) Add: $141_{five} + 43_{five}$

(2 Marks)

31. The pie chart below shows how Mr. Lukaluka spent his money monthly.



a) Express the sector of parties in degrees.

(3 Marks)

b) If he spent 560,000/= on rent, work out his total income per month. (2 Marks)

32.	The mean age of Amos, Peter, Isaac and Ji	mmy is 13 years. The mean age of
R	itah, Privah, Sarah, Sandra and Susan is 12 y	ears.
	a) Find the total age of the ;	
	(i) girls	(1 Mark)
	(ii)boys	(1Mark)
	b) Find the mean age of all the children.	(3 Marks)
	,	