



NGORA DISTRICT EXAMINATION BOARD

PRIMARY LEAVING MOCK EXAMINATIONS – 2024

PRIMARY SEVEN

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

INDEX NO.

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PUPIL'S NAME:

SCHOOL NAME:

LIN

Read the following instructions very carefully.

1. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has 8 pages altogether.
2. Answer all questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs, pictures and diagrams will not be marked.
4. Unnecessary changes of work may lead to **loss** of marks.
5. Any handwriting that cannot easily be read may lead to **loss** of marks.
6. Don not fill anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the Question paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S SIGN
PAGE 2		
PAGE 3		
PAGE 4		
PAGE 5		
PAGE 6		
PAGE 7		
PAGE 8		
TOTAL		

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Turn Over

SECTION A (40MARKS)

1. Workout:
$$\begin{array}{r} 2 \ 3 \\ \times \ 5 \\ \hline \end{array}$$

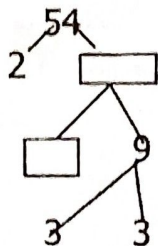
2. Write in figures "forty two thousand thirteen"

3. Find the next number in the sequence.
128, 64, 32, 16, 8, _____

4. Simplify: $3xy - 5ac + 4xy + 6ac$.

5. Workout $2 - 5 = \underline{\hspace{2cm}} \pmod{7}$

6. Complete the factor tree below.



7. Given that set $E = \{b, o, x\}$, Find the number of proper subsets in the set E above.

8. Round off 534.628 to the nearest whole number.

9. Using a ruler, a pair of compasses only, drop a perpendicular line from point F to bisect line segment AB



10. Workout: $4\frac{2}{3} - 1\frac{1}{2}$

11. A trader sold a radio at sh.45,000. If he made again of sh.5,600, find the cost price of a radio.

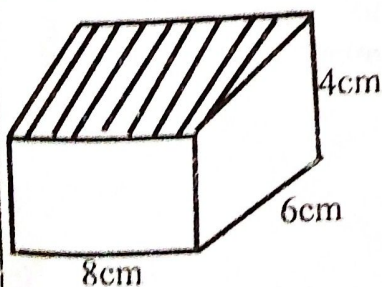
12. Arrange -4, 3, -1, 0 and 2 in ascending order.

13. A mathematics examination started at 9:10am and lasted for 2 hours 30mins. At what time did it end?

14. Increase shs.48,000 by 20%

15. Find the mean of $6x$, 10 and 5.

16. Calculate the area of the shaded part in the cuboid below.



17. Find the value of k in degrees if $(k+15)^\circ$ and $(2k)^\circ$ are complementary angles.

18. Shade $\frac{2}{3}$ of the figure below



19. Given that $P=q=4$ and $r=3$. find the value of $\frac{2Pq+q}{r}$

20. A box contains 6 red pens, 2 blue and 4 green pens. Find the probability of picking a red pen from the box?

SECTION B

21.a) Express 0.4545..... as a vulgar fraction (02mks)

b) Workout:

$$\frac{1.24 + 0.8}{0.02}$$

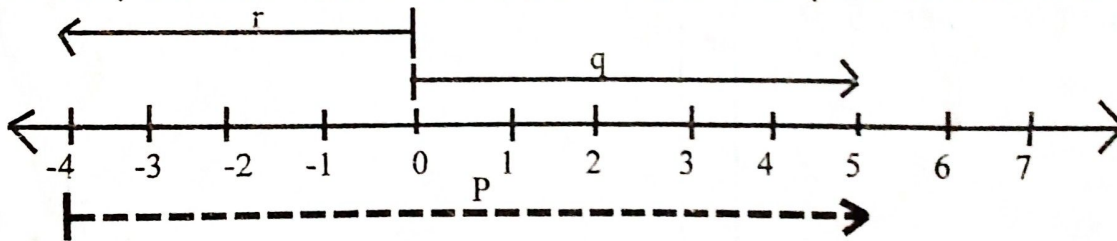
(3mks)

22.a) Given that $17_n = 15_{ten}$, find base represented by letter n. (03mks)

b) Subtract: $321_{five} - 132_{five}$ (02mks)



23. Study the numberline below and use it to answer questions that follow.



a) Write down the integers represented by the arrows. (1mk @)

P = _____

q = _____

r = _____

b) Write down the mathematical statement shown on the numberline above. (02mks)

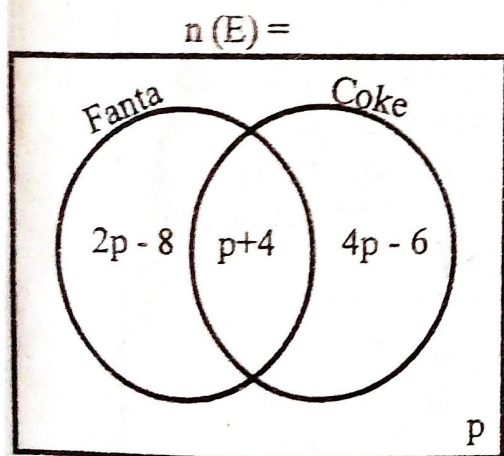
24. The average weight of 4 girls is 120kg . If the total weight of three of them is 360kg, find the weight of the fourth girl. (04mks)

a) If 28 candidates like only one type of drink, find the value of P (02mks)

b) How many pupils were in the class? (02mks)

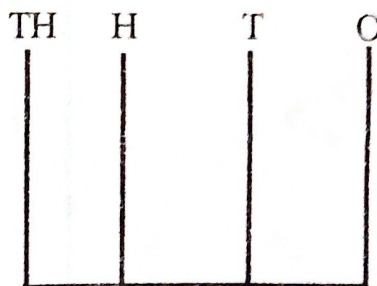
c) Find the probability of picking at random a candidate who doesnot like Fanta. (02mks)

25. The venn diagram below shows the drinks liked by different primary seven candidates at Global Junior School. Study it carefully and use it to answer questions that follow



26. Given the digits 2,3,0 and 4.

a) Show the above digits on the abacus in their order.



(01mk)

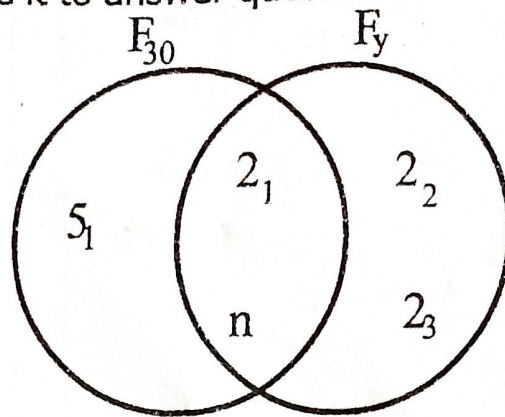
b) Workout the difference of the smallest and largest numbers formed by the digits above.
(04mks)



27.a) Using a ruler, pencil and pair of compasses only, construct a triangle TUS, where angle UTS = 90° , line TU = 6cm and angle TUS = 30°
(04mks)

b) Measure the length of side \overline{SU}
(01mk)

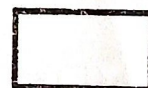
28. Study the venn diagram below and use it to answer questions that follow



Find: a) the value of n (02mks)

b) the value of y (02mks)

c) the GCF of 30 and y (01mk)



29. The sum of the values in the table below are the same vertically, horizontally the unknown letters
(05mks)

<u>e</u>	<u>b</u>	2817	
252019 _a			<u> </u>
<u>d</u>	241318		
2615 _c	<u> </u>		29

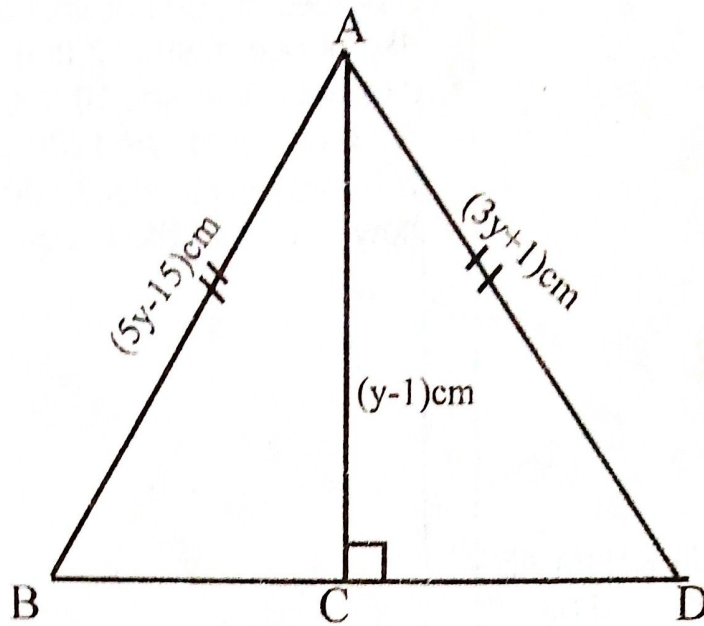
30.a) A bus travelled at 120K.P.H for 45 minutes find the distance covered by the bus. (02mks)

b) Convert 2:15p.m to a 24-hour clock system. (02mks)

c) Express 20minutes as hours. (01mk)

31. A teacher went to the supermarket and bought the following items
5 bottles of soda at sh.1,000 each
4kg of rice at shs.12,000.
2kg of pork at shs.10,000 per kilogram
500g of salt at shs.1200 per kilogram
If he was given shs.2,400 as change, how much did the teacher have at first?
(06mks)

32. Study the triangle below and use it to answer questions that follow.



a) Find the value of y .

(02mks)

b) Calculate the length AC

(02mks)

END

