



AGAGO DISTRICT PRIMARY SCHOOLS EXAMINATION BOARD
PRIMARY LEAVING MOCK EXAMINATION, 2023
MATHEMATICS
PRIMARY SEVEN

Time allowed: 2Hours 30Minutes

INDEX NO.

EMIS No	Personal No

Candidate's Name:

Candidate's signature:

School Name:

District :

DO NOT OPEN THIS BOOKLET UNTILL YOU ARE TOLD TO DO SO

Read the following instructions carefully.

1. This paper has two section A and B.
2. Answer all questions. All answers to both sections A and B must be written in the space provided.
3. All answers must be done using a blue or black ball point pen or fountain pen.
4. Unnecessary change of work may lead to loss of marks.
5. Any handwriting that cannot be easily read may lead to loss of marks.
6. Do not fill anything in the boxes indicated:

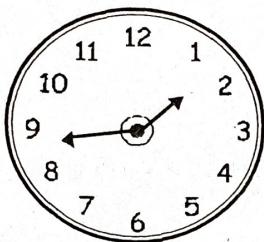
For Examiners' use only and those inside the question paper.

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

SECTION A: (40 MARKS)

1. Workout: 33×3
2. Express CMXLIX in Hindu -Arabic numerals.
3. What number has been expended below:
 $40,000 + 700 + 9$
4. A forty minute lesson started at 8:30am. At what time did it end.
5. Given that:
Set $R = \{1, 2, 3, 4, 5, 6, 7\}$
 $V = \{2, 4, 6, 8, 10\}$
List down all the members of $(R \cap V)'$
6. Find the complement of $x + 40^\circ$.
7. A man bought a cow at sh.300,000 and sold it at sh.320,000. Calculate his percentage profit.
8. Round off 15973 to the nearest thousands.
9. Solve: $3(x - 2) - 4(x - 2) = 7$

10. What afternoon hours is shown on the clock.



11. Simplify: $7 + 8$

12. 3 pieces of fish cost sh.1200. How many pieces of fish will be bought with sh.4800?

13. A bag contains 8 green pens and 32 blue pens. What is the percentage of the blue pens?

14. Using a protractor, a ruler and a pencil only, draw an angle 60° in the space provided below.

15. Workout $3 - 4 = \underline{\hspace{2cm}}$ (mod 6) using a dial.

16. Betty has 45kg of salt to be packed in $\frac{5}{6}$ kg packets. How many packets will she get?

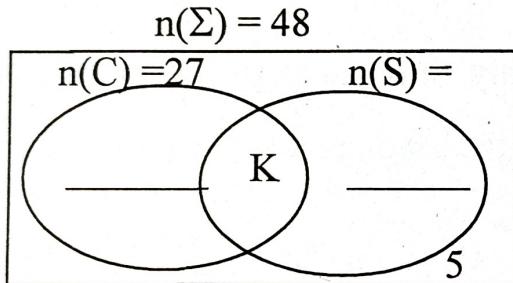
17. How many lines of folding symmetry has the letter below?



18. A farmer deposited sh.120,000 in a bank that offers an interest rate of 10% per year. How much interest will a farmer get in 2 years?
19. Workout $(49 \times 39) + (61 \times 49)$ Using distributive property.
20. The LCM of two numbers is 18 and their HCF is 9. If the second number is 18. Calculate the first number.

SECTION B: (60 MARKS)

21. In a village of 48 farmers, 27 farmers grow coffee (C), 2k farmers grow sorghum (S) only, K farmers grow both crops and 5 grow other crops.
- a) Complete the Venn diagram below. (2marks)



- b) How many farmers grow both crops? (3marks)

22. Piranok went to the shop and bought the following items.

2½ kg of sugar at sh.1000 per kg

500gm of curry powder at 300 per kg

2 bars of soap at sh.800 per bar.

250gm of groundnuts at sh.350.

- a) What was his total expenditure? (4marks)

- b) If he went with sh.5000 to the shop, what was the balance?

(1mark)

23 a) Express 0.0456 in standard form. (2marks)

b) Given that $41_p = 21$, find the value of p. (3marks)

24. In a concert, $\frac{1}{3}$ of the audience were parents, $\frac{2}{5}$ were guests and the remaining audience were teachers. How many people were there in the hall if 32 teachers attended the concert? (4marks)

25 a) Simplify: $\frac{0.013 \times 0.48}{0.26 \times 0.8}$ (3marks)

b) Add: $6.36 + 48.5$ (2marks)

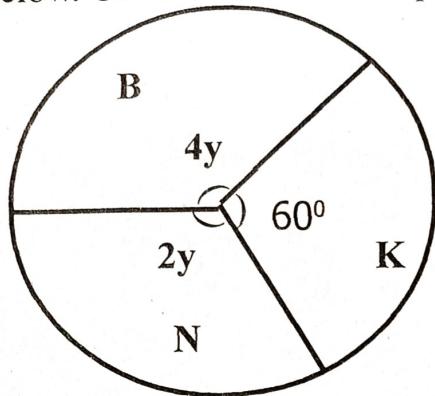
26. Study the table below and answer the questions.

Mark	40	50	60	r	90
No. of pupils	2	2	3	2	1

a) If the mean mark was 49, find the value of r. (4marks)

b) Calculate their range. (1mark)

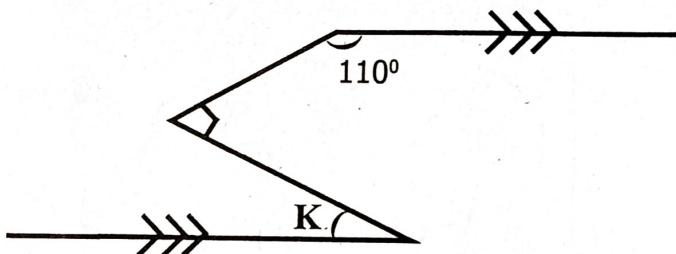
27. The district health inspector supplies drugs to three health centres **B**, **N** and **K** as shown below. Use it to answer the questions that follow.



a) Find the value of y in degrees. (2marks)

- b) If centre **N** received 160 boxes of drugs, how many boxes of drugs were supplied to all the three health centres? (3marks)

- 28 a) Find the size of $\angle k$ in the figure. (3marks)

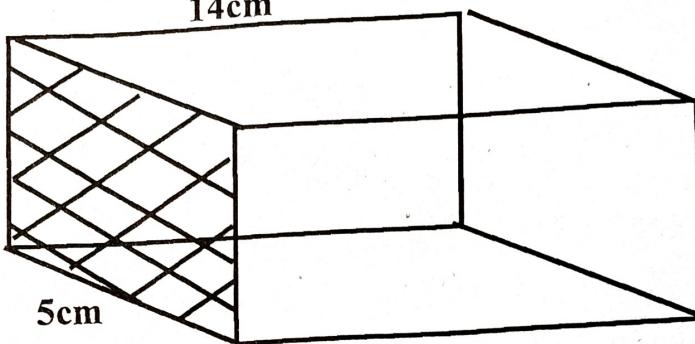


- b) The interior angle of a regular polygon is 60° more than the exterior angle. Name the polygon. (3marks)

- 29 a) Solve for y if $(4y)^2 = 64$. (2marks)

- b) Find the solution set for $2x > 8$ (2marks)

30. The perimeter of the shaded part of the cuboid below is 18cm.



(3marks)

- b) Find the height of the cuboid.

- b) Calculate the capacity of the cuboid.

(2marks)

31. A cyclist rode from Patongo town council to Lira Palwo town council at a speed of 60km/hour for 3 hours. He later rode back to Patongo Town Council at a speed of 90km/hour.

- a) How far is Patango town council from Lira Palwo town council? (2marks)

b) Calculate his average speed for the whole journey.

32. Using a ruler, pencil and a pair of compasses only, construct a triangle PQR in which $\angle QPR = 60^\circ$, $\overline{PQ} = 6\text{cm}$ and $\angle PQR = 90^\circ$. Bisect angle Q to meet PR at A and drop a perpendicular from A to meet PQ at Y. (6marks)