KAMPALA PRIMARY SCHOOLS HEADTEACHERS' EXAMINATIONS COMMITTEE (KAPSHA)

PRIMARY SEVEN PRE-MOCK EXAMINATIONS 2024

MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES.

Random No.						Personal No.		

Candidate's Name: _____

School: _____

Division: _____ ***School No:*** | | | | |

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

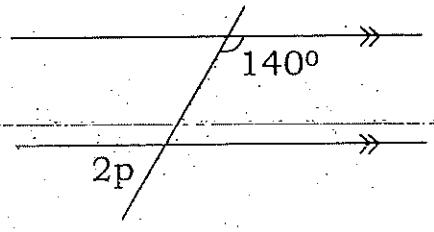
Read the following instructions carefully.

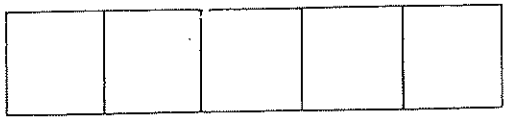
1. This paper is made up of two sections: **A** and **B**
2. Section **A** has ***20*** questions (**40** marks)
   Section **B** has ***12*** questions (**60** marks)
3. Answer **all** questions. **All** answers to both section **A** and **B** must be written in the spaces provided.
4. ALL answers **MUST** be written using a **Blue** or a **Black** - point pen of fountain pen.
5. Un-necessary changes of work may lead to loss of marks.
6. Any handwriting that cannot easily be read may lead to loss of marks.
7. Do **not** fill any thing in the boxes shown ***"For Examiner's use only".***

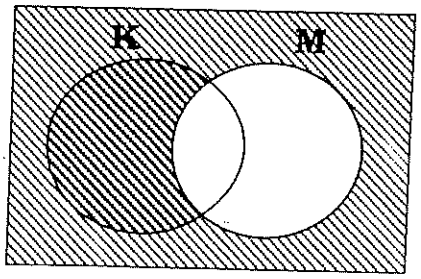
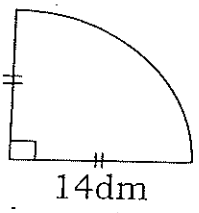
FOR EXAMINERS' USE ONLY		
QN. NO	*MARKS*	*SIGN.*
1 – 10		
11 – 20		
21 – 25		
26 – 30		
31 – 32		
TOTAL		

TURN OVER

SECTION A (40Marks)

1.	**Add:** 1 4 + 5 2 _____ _____	2.	Write **XLIX** in words.
3.	Given that set **P** = {odd numbers less than 10} and set **Q** = {Prime numbers less than 10} Find **AnB**	4.	Write **34.396** in standard form.
5.	**Simplify:** 7k – 3h + k + 6h	6.	Find the value of **P** in degrees. 
7.	Find the least number of oranges that can be shared among **12** or **18** P.7 pupils without leaving a remainder.	8.	Round off **479.995** to the nearest hundredths.

9.	In the diagram below shade **80%** 	10.	**Simplify:** $\frac{8}{10} - \frac{1}{10}$
11.	Find the next number in the sequence below. 24, 17, 11, 6, _____, _____	12.	Change **36km/hr** to meters per second.
13.	At Sarah's shop **4**pens cost **sh.4,800**. How many pens would one get if he has **sh.8,400**?		
14.	Using a pair of compasses, ruler and pencil only, construct an angle of **45^0**		

15.	The average weight of **6** boys is **50kg**. If two boys of total weight **120kg** leave the group, find the total weight of the remaining boys.	16.	**Work out:** $\frac{2}{3} + \frac{3}{4}$
17.	Solve for **P** in P + ½P = 6	18.	A football match ended at 1:10pm after being played for **90**minutes. Find the time at which the football match started.
19.	Describe the unshaded part. 	20.	Work out the perimeter of the figure below. 

SECTION B (60marks)

21. a) Express $\mathbf{402_{five}}$ to a decimal base.

(2marks)

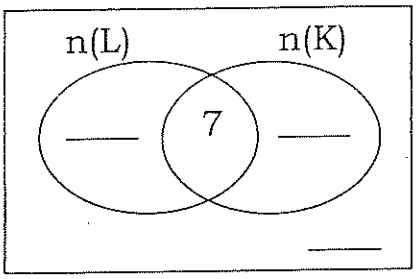
b. If $\mathbf{44_P = 35_{nine}}$. Find the value of **P**.

(3marks)

22. In a class of **80**pupils, all of them speak English. **50** speak English and Luganda (L), **Y** pupils speak English and Kiswahili (K), **7** pupils speak all the **3** languages while **2** pupils speak only English.

a) Represent the above information on Venn diagram below.

$n(\mathcal{E}) = 80$



(3marks)

b. Find the number of pupils who speak English and Kiswahili only.

(2marks)

23. a. **Work out**: $\dfrac{0.024 + 0.012}{3.6 - 1.8}$

(3marks)

b. Express **0.2424**.... as a rational number in its simplest form.

(2marks)

24. A motorist left town **A** at **8:00am** and reached town **B** at **10:00am** driving at a speed of **90km/hr**. Then he left for town **C** at a speed of **60km/hr** for 3hours.

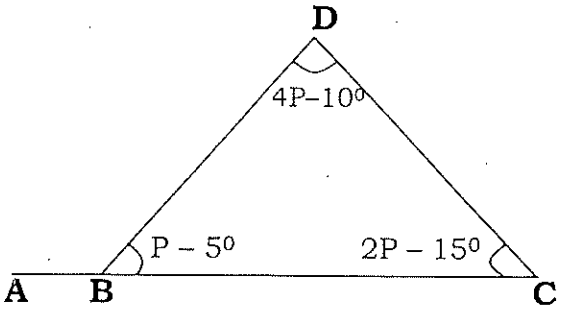
a. How far is town **B** from town **A**?

(3marks)

b. Calculate the average speed for the whole journey.

(2marks)

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



a. Find the value of **P**.

(3marks)

b. Find the angle marked **ABD**

(2marks)

26. Mwiza bought the following items in the table below from Mr. Wasoma's shop in Katwe.

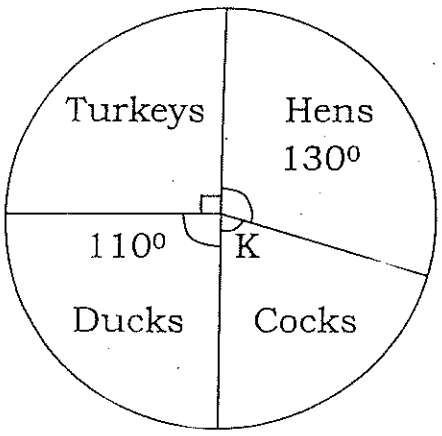
a. **Complete the table.** *(4marks)*

ITEM	UNIT PRICE	AMOUNT
3 bars of soap	sh. 4,000	sh._____
2 loaves of bread	sh. _____	sh. 10,000
_____ kg of salt	sh. 800	sh. _____
TOTAL EXPENDITURE		sh. 24,000

b. If Mwiza paid **sh. 18,000** what percentage discount was she given?

(2marks)

27. The pie-chart below shows how birds are distributed on Mrs. Namuli's farm in Nkokonjeru Mukono District. Use it to answer questions that follow.



a. Find the value of **K**.

(2marks)

b.	If there are **4** more ducks than Turkeys, Find the total number of birds on Namuli's farm. *(3marks)*
28. a.	Using a ruler, a pencil and a pair of compasses only, construct a rhombus ABCD where **AC = 8cm** and **BD = 6cm**. *(4marks)*
b.	Measure the length **AB.** *(4marks)*

29. A tank is $\frac{3}{4}$ full of water. When 20litres are removed it becomes $\frac{2}{3}$

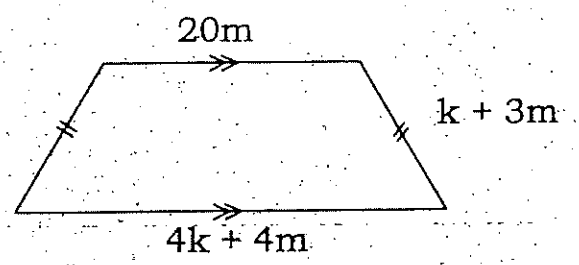
How many litres does the tank hold when it is completely full?

(3marks)

b. If **1**litre costs **sh. 2,000**, how much will the tank cost when it's completely full?

(2marks)

30. The shape below is a nursery bed of Mr. Wante. Study it and use it to answer questions that follow.



a. If the perimeter of the nursery bed is **72**meters, find the value of **K**.

(2marks)

b. Workout the area of the nursery bed.

(3marks)

31. Two buses **K** and **M** leaves the bus park in intervals of **20** minutes and **30** minutes respectively.

a. After how many minutes will the two buses leave at the same time?

(2marks)

b. If they last leave the bus park at 9:45am. At what time will they leave together again?

(2marks)

32. Given that **Y = X + 2.** Complete the table below correctly. *(5marks)*

X	-1	____	2	____	-4
Y	____	0	____	5	____

"GOOD LUCK"