# 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*** | | |

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***TURN OVER***

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## SECTION A (40Marks)

1. **Add:**
$$\begin{array}{r} 1\ 4 \\ +\ 5\ 2 \\ \hline \\ \hline \end{array}$$

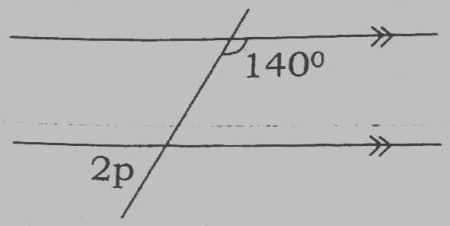
2. Write **XLIX** in words.

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.



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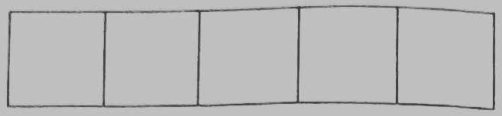
| | | | |
|---|---|---|---|
| 9. | In the diagram below shade **80%**<br>  | 10. | **Simplify:** $^{-}8 - {}^{-}10$ |
| 11. | Find the next number in the sequence below.<br><br>24, 17, 11, 6, _____, _____ | 12. | Change **36km/hr** to meters per second. |
| 13. | At Sarah's shop **4**pens cost **sh.4,800**. 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 **$45^{0}$** | | |



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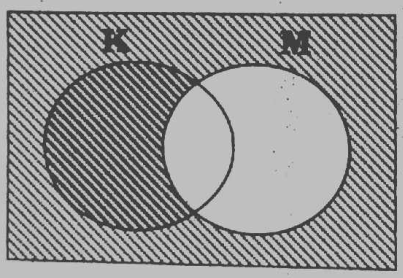
15. The average weight of **6** boys is **50kg**. If two boys of total weight **120kg** leave the group, find the total weight of the remaining boys.

16. **Work out:** $\frac{2}{3} + \frac{3}{4}$

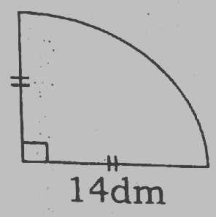
17. Solve for **P** in P + ½P = 6

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.



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## SECTION B (60marks)

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

*(2marks)*

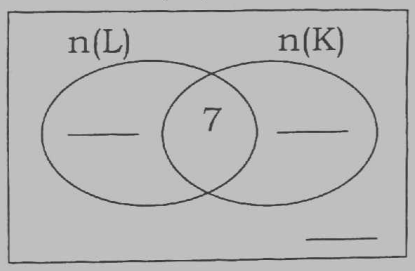
b. If $\mathbf{44}_{\mathbf{p}} = \mathbf{35}_{\text{nine}}$. Find the value of **P**.

*(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)*



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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 **3**hours.

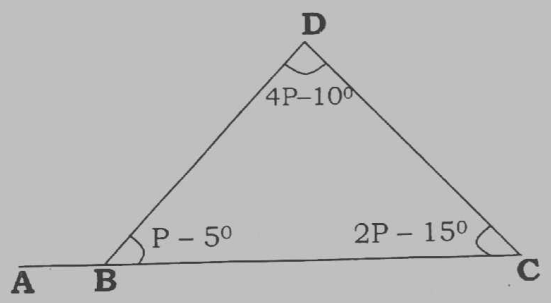
a. How far is town **B** from town **A**?

*(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)*



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

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

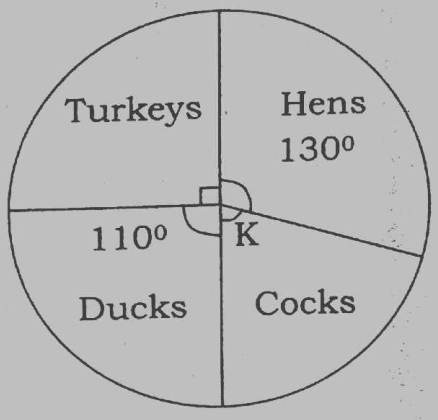
| ITEM | UNIT PRICE | AMOUNT |
|---|---|---|
| 3 bars of soap | sh. 4,000 | sh._____ |
| 2 loaves of bread | sh. _____ | sh. 10,000 |
| _____ kg of salt | sh. 800 | sh. _____ |
| **TOTAL EXPENDITURE** | | sh. 24,000 |

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)*



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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)*



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

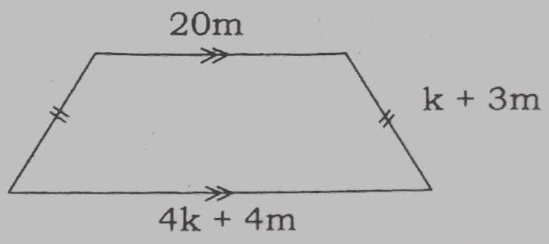
How many litres does the tank hold when it is completely full?

*(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.

*(3m*



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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"***



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