KOLFRAM EDUCATIONAL SERVICES KAMPALA

PRE REGISTRATION SET **I** EXAMINATIONS 2024

PRIMARY SEVEN

MATHEMATICS

*Time allowed: **2** hours 30 minutes*

Index Number:

EMIS Number						Personal Number		

Candidate's Name: ………………………………………..…………………………………….

Candidate's Signature: ………………………………………..…………………………………

School Name: …………………………………..…………………………………….……..

District Name: ……………………………………..………………………..…………………

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

Read and follow these instructions carefully:

1. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **10** printed pages.

2. Answer **all** questions. **All** answers to both sections A and B must be shown in the spaces provided.

3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will **not** be marked.

4. . No calculators or **electronic** pens are allowed in the examination room.

5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.

6. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

Turn Over

SECTION: A (40marks)

1. Workout: 86 − 75

2. What is the product of the place value of 2 and the value of 4 in 2374?

3. Given that set K = {all English vowel letters}, Find the number of proper subsets in set K.

4. Prime factorise 36 and give your answer in power form.

5. Express $\frac{3}{4}$ as a percentage.

6. 10 pencils cost sh. 7000, how much will 4 similar pencils cost?

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7. Gilbert had 40 Km to cover after travelling $\frac{3}{5}$ of the journey. How long was the journey?

8. The perimeter of a rectangle below is 42dm. if its width is 6dm. Find its length.

6dm
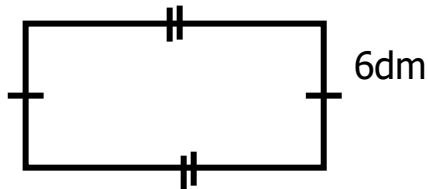
9. **In the figure below, workout the value of m in degrees.**

2m + 22°

28°
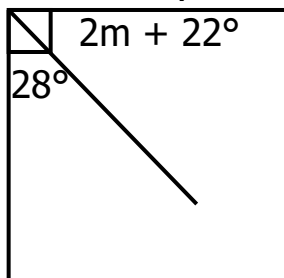
10. Write in short form. $(7 \times 10000) + (7 \times 10) + (0 \times 100) + (7 \times \frac{1}{10})$

11. Increase sh. 2000 in the ratio of 5:4.

12. A forty minute lesson ended at 9:50 a.m. At what time did it start?

13. Find the value of 3p + 6q if p=4 and q=7

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14. In the space below, construct an angle of 60^0 using a ruler, a sharp pencil and a pair of compasses.

15. Makwasi scored the following points while he was playing Dats:
    70, 25, 40, 35, 50 and 60 respectively. Find Makwasi's median score.

16. A cyclist moving at 60km/hr covered a certain distance in just 2½ hours. Find the distance he covered.

17. Express 2 dozen of pens as a ratio of 18 pens.

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18. $\frac{2}{3}$ of a number is 99. What is the number?

19. Given that ⛾ represents 2 dozen cups. Draw pictures to represent a gross of cups.

20. Find the missing numbers in the sequence below.

18, 27, 9,   3, _____, _____

SECTION B (60 marks)

21(a) Solve for P in the equation below.   (**2marks**)

$\frac{2}{5}$p + 4 = 8

(b) Kissa is 3times as old as Kityo. If the different between their age is 40years. How old is each of them now?   (**3marks**)

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22(a) What is the biggest number that can be formed using digits:

2, 6, 3, 9 and 4? (**1mark**)

(b) What is the place value of the underlined digit?

834.6<u>5</u> (**1mark**)

(c) Round off 28.57 to the nearest tens. (**2marks**)

23 (a) Workout $\dfrac{4.8x0.6}{1.6x0.2}$ (**3marks**)

(b) Simplify: $\dfrac{1}{2}$ x $\dfrac{2}{3}$ ÷ $\dfrac{3}{4}$ (**2marks**)

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24. In a club of 60 members, 35 eat fish (F) ,33 eat cassava (C) and **y** eat both Fish and Cassava while 5 eat neither of the dishes.

   (a) Complete the Venn diagram below.

$$n(\Sigma) = 60$$

(**2marks**)

n(F)=35   n(C)=33

y
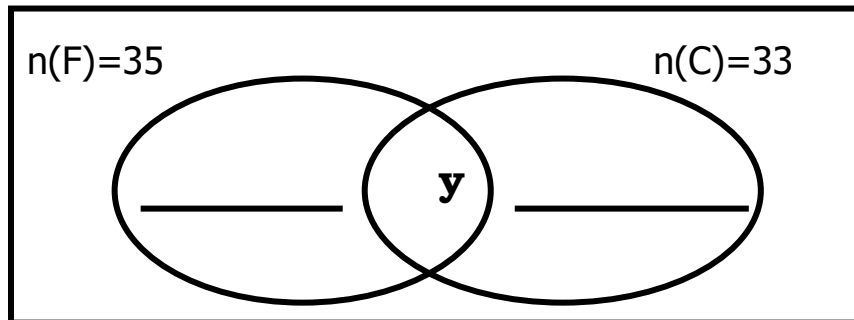
   (b) Find the value of y   (**2marks**)

   (c) What is the probability of picking at random a member who does not eat fish?   (**2marks**)

25. Using a sharp pencil, a ruler and a pair of compasses only, construct a square of side 5cm.   (**4marks**)

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26. Three teachers male, Matte and Matata shared 1200 exercise books in the ratio of 2:5:3 respectively.

(a) How many books did each get? (**3marks**)

(b) Express Matte's share as a percentage of the total. (**2marks**)

27. Nalugwa went shopping and bought the following items.

2kg of sugar at sh. 3800 per kg.

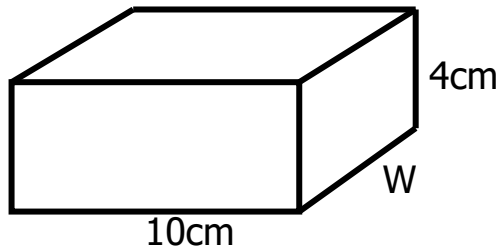1 ½ kgs of meat at sh. 10,000@

3litres of milk at sh. 7500

2 loaves of bread at sh. 4500 each.

(a) Calculate her total expenditure. (**4marks**)

(b) If aunt Namatovu gave her sh. 50,000, how much did she take home as change? (**2marks**)

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28. Study the figure below and answer the questions that follow. The volume of the cuboid is 240cm^3.

4cm
W
10cm

   (a) Find the value of W. (**2marks**)

   (b) Calculate the total surface area (T.S.A) of the above figure.

(**3marks**)

29. A gateway bus left Kampala for Bushenyi at 6: 45 a.m. and reached Bushenyi at 10:30 a.m. travelling at a speed of 60kph.

   (a)   How long does the bus take to travel from Kampala to Bushenyi? (**2marks**)

   (b) Calculate the total distance covered from Kampala to Bushenyi. (**3marks**)

31. Workout the following using distributive property. (**2marks**)

   (a) (75 x 10) + (25 x 10)

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(b) $(285 \div 3) - (45 \div 3)$ (**2marks**)

32. The circle graph below shows how Mama Sam spends her monthly
    salary of sh. 144,000. Use it to answer the questions that follow.
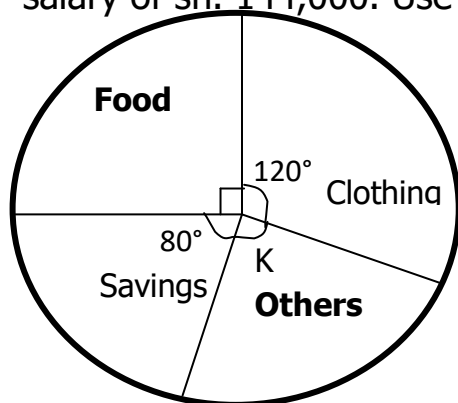
(a) Find the value of K.   (**2marks**)

(b) How much does she spend on clothing?   (**2marks**)

(c) What fraction is spent on food?   (**2marks**)

31. Kantinti scored the following marks in a series of Mathematics tests.
    70, 60, 40, 60, 80 and 50
    (a) Workout the range.   (**1mark**)

    (b) Find her modal frequency.   (**1mark**)

    (c) Calculate the average mark.   (**3marks**)

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