JINJA DISTRICT MOCK ASSESSMENT 2023

MATHEMATICS PAPER

Time allowed: 2 HOURS: 30 MINUTES

INDEX NO.

EMIS			PERSONAL No					

CANDIDATE'S NAME: .....

CANDIDATE'S SIGNATURE: .....

RANDOM NUMBER: .....

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. Answers to both sections must be written in the spaces provided in full sentences.
3. Section **A** has **20** questions (40 marks)
4. Section **B** has **12** questions (60 marks)
5. Attempt all questions. All answers to both sections **A** and **B** must be written in the spaces provided.
6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **NOT** be marked.
7. Crossing out of answers will lead to **loss** of marks.
8. Any handwriting that cannot be **easily** read may lead to loss of marks.
9. Wrong **spelling** will lead to loss of marks.

FOR EXAMINERS USE ONLY		
QN. NO.	MARK	SIGN
1 - 5		
6 - 10		
11 - 15		
16 – 20		
21 – 23		
24 – 26		
27 – 30		
31		
32		
TOTAL		

SECTION A: (40 MARKS)

1. Subtract **44** from **95**.

2. Write "**four hundred eighteen**" in roman numerals.

3. Prime factorize **100** and write your answer in multiplication form.

4. Find the next number in the sequence
4,6,8,9 10, 12, 14, ____

5. After recovering $\frac{2}{7}$ of his journey, Waiswa was still left with **40km**. What distance was Waiswa supposed to cover in total?

6. Find the valve of n:
N+5= 2 (finite 7)

7. Work out the median of: 5, 9, 7, 4,8 and 3.

8. Using a ruler, a pair of compasses and a sharpened pencil only, construct an angle of **45°.**

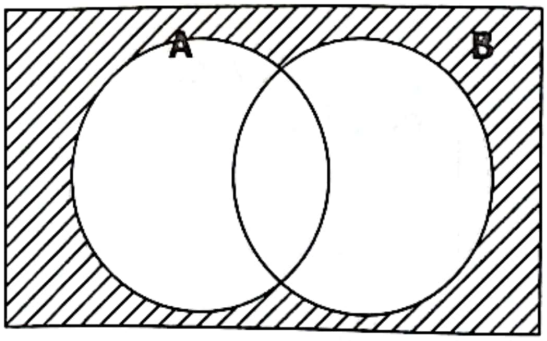
9. Express **5**m/s in km/ hr.

10. Angella had a bundle of five thousand shilling notes numbered consecutively from **MK738462 to MK738511** .How much money does Angella had in total?

10. The perimeter of maize garden is **36m** find the area of the garden.

12. Simplify; **4g -6g +5g**

13. Describe the **shaded** region on the Venn diagram below.

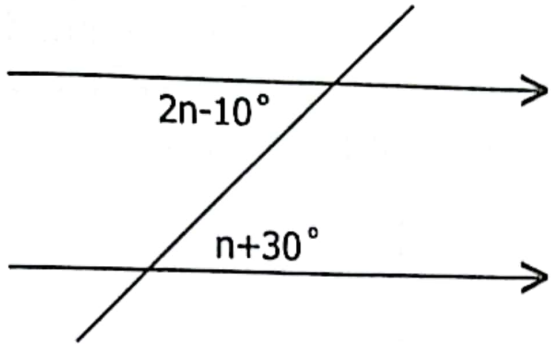


14. In a box there are **60** apples. How many apples are in **19** such boxes?

15. Set **P**= {the first two prime numbers} list all the subsets in set **P**?

16. In a **P.7** Class there are **30%** more boys than girls. Find the percentage of boys in this class?

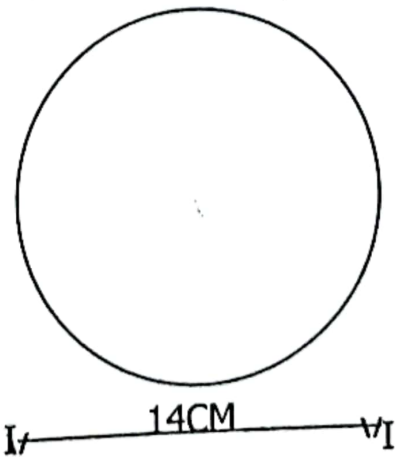
17. Use the figure below to find the value of n.



18. In a meeting of **21** members, **9** members are men and the rest are women. What is the probability of picking a woman at random to be a leader?

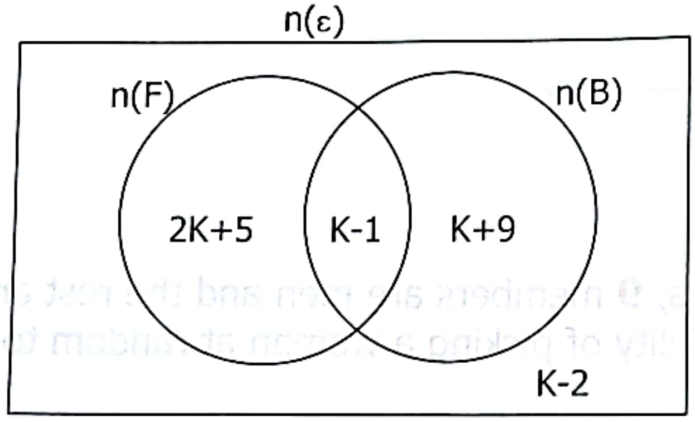
19. Mr. Mugisha started a forty minute lesson at 8:25am. At what time did the lesson end?

20. The given circle has a diameter of **14**cm; calculate the area of the circle. (Take $\pi = \frac{22}{7}$)



SECTION: B (60 MARKS)

21. The Venn diagram below shows people who attended a birthday party. Some people ate fish (**F**), others ate beef (**B**) while some ate both dishes and (**k-2**) ate none of the dishes.



a). If **5** people ate none of the dishes, find the valve of **k.**

b). How many people attended the birthday party?

c). Find the probability of picking a guest who ate both dishes.

22. a). Add: $2\ 3\ 1_{\text{five}}$
$+\ 3\ 2_{\text{five}}$

(b). $W^2 = 121$. Find the valve of **W**.

(c). Convert **13** into binary base.

23. a). Write **2.4 x10** as a single number.

(b). Solve; **(78x4) + (22x4)** using distributive property.

(c).Find the square root of **0.09**.

24. Given **56P** is a number which is divisible by **9**. The sum of the digits is **18**. Find the value of **P**.

(b).The sum of **3** consecutive even numbers is **72**. If the smallest number is **e+1**, find all the numbers.

25. a) Round off **6.95** to the nearest tenths.

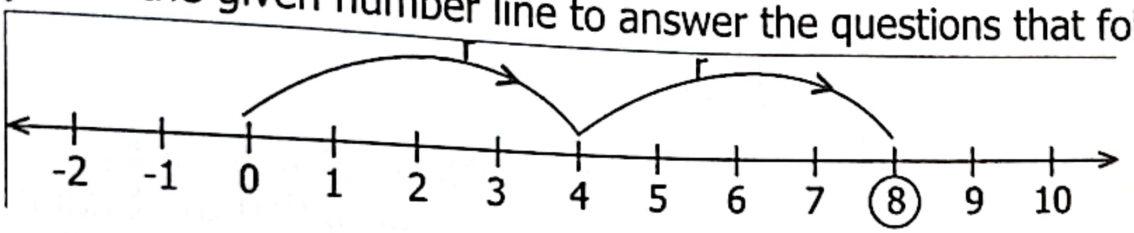
(b).Mary and Ali shared a certain amount of money and Mary got $\frac{3}{11}$ more than Ali;

(i). What fraction of the money did Ali get?

(ii).If Ali got sh.**20, 000**, how much money was shared?

26. If today is Tuesday, what day of the week will it be after **57**days to come?

(b). Use the given number line to answer the questions that follow.



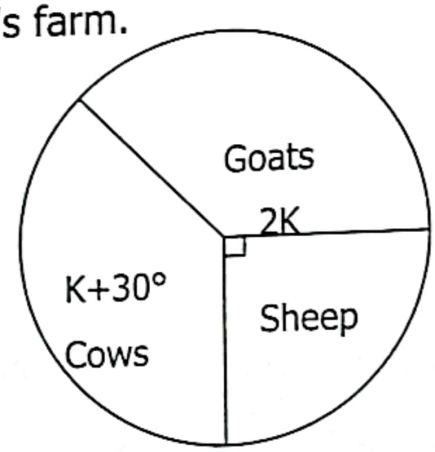
(i). Write the value of **r.**

(ii).Write the multiplication statement shown on the line above.

27. a). Construct triangle **MAN** in which lines **MA= 8cm, AN=5.5cm** and **MN= 7cm**, using a ruler, a pair of compasses and a sharp pencil.

b).Measure angle **AMN.**

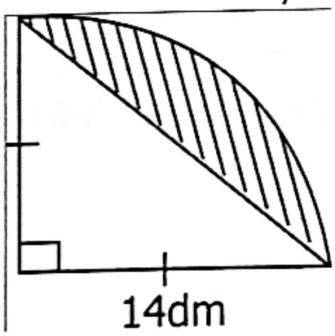
28. The pie chart below shows the number of different animals on Mr. Bitek's farm.



(a). Find the valve of **K**.

(b). If there are **32** goats on the farm, find the total number of animals altogether.

29.The diagram shows a quadrant with part of it shaded .find the area of the shaded region($\boldsymbol{Take\ \pi = \frac{22}{7}}$)



30. Belinda went to the market and bought the following items
2 kg *of rice at* ***Shs.4500*** *per kg*
$2\frac{1}{2}$ *kg of meat at* ***Shs.14,000*** *each kg.*
20 *passion fruits at* ***Shs.1,000*** *for every 4 groups.*

(a). How much did she spend on all the items?

(b). If she had a fifty thousand shilling note at first and she was given a discount of **Sh.1000**, how much was her change?

1. a).Solve: **p/ 2 +p= 6**

(b). Martha is twice as old as Moses now. In **7** years time, their total age will be **56** years. How old is each one of them now?

32. A cyclist rode from town **P** to town **Q** at a steady speed of **45km/ hr** for **2** hours.
He then rode back from town **Q** to town **P** using the same road at a steady speed of **30km /hr**.
(a). How far is town **P** from town **Q**?

(b). Calculate the cyclist's average speed for the entire journey.

END