BUHWEJU DISTRICT LOCAL GOVERNMENT
ACADEMIC BOARD
P.7 MOCK 2024
MATHEMATICS

TIME ALLOWED: 2HRS AND 30 MINUTES

INDEX NO

Emis number					Personal number			

Candidate's Name .....

Candidate's Signature .....

School Name .....

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

Read the following instructions carefully.

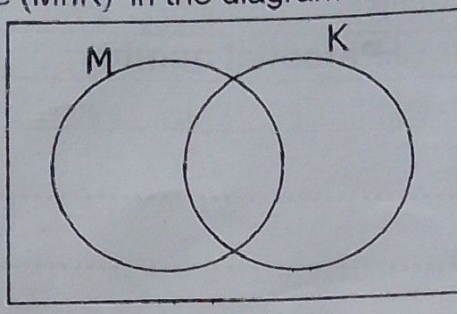
1. This paper is made up of two sections **A** and **B**
2. Section A, has 20 questions 40 marks
3. Section **B** has 12 questions. (60 marks)
4. Attempt ALL questions. ALL answers in both Section A and B **MUST** be written in the spaces provided.
5. All answers must be written in **blue** or **black ball** point or ink. Only diagrams and Graphs work must be done in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot be easily read may

FOR EXAMINER'S USE ONLY		
pages	Marks	Examiner's No.
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
TOTAL		

SECTION

1. Work out: 725 + 64

2. Shade (MnK)' in the diagram below



3. Write 6041 in words.

4. Simplify: $1\frac{1}{2} \div \frac{3}{4}$

5. Solve for n: $\frac{3n}{4} = 9$

6. Express $3\frac{1}{3}$ hours to seconds

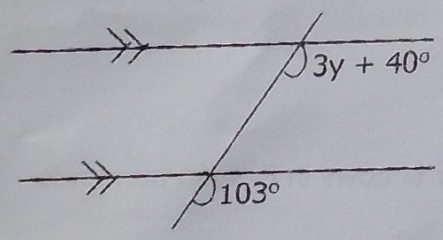
7. Work out: 3 – 5= .....(mod 7) us

8. Write $7 \cdot 03 \times 10^{-2}$ as single number

9. During an assembly, Musa was in the 11^{th} position from i
the 24^{th} position from behind. Calculate the number of pu
standing in the line.

10. A trader bought a tray of eggs at sh.15, 000. How much can h
to make a profit of sh.3, 000?

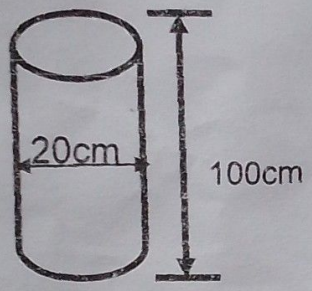
11. Find the value of y in the figure below.



12. Express 12:35 pm in military format

13. Given that r = -3 and p =4. Find the value of 2r – p

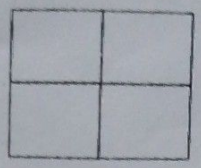
14. Find the capacity of a cylindrical water can below (use $\pi = 3{\cdot}14$)



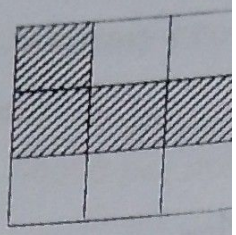
15. Find the GCF of 84 and 90

16. Kariisa has 69 cows. Express his number of cows in Roman numerals.

17. Work out:



X

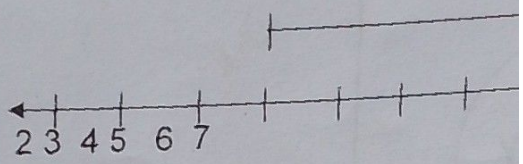


18. Find the next number in the sequence

10, 11, 19, 46, ...

19. Find the integers represented on the number li

K P



P = ...

K = ...

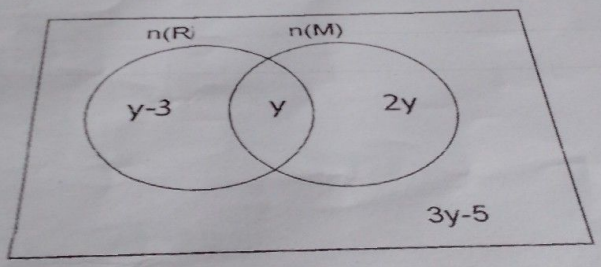
20. 60kg of sugar are to be packed in Sackets of 50
100 Sackets of 250gms each. Calculate the num
packed

SECTIONN B (60 MARKS)

21. (a)Work out: $1011_{two} \div 11_{two}$ (2 mks)

(b) Find the value ofbase n: $103_n = 124_{five}$ (3

22. The Venn diagram below represents pupils in a class who ate dif
is; rice (R) and matooke (M)



ven that 28 pupils ate other types of food. Find the

late the number of pupils who did not eat

lock 2024, Mathematics

23. Famuzah went to the market with **two thousand shilling** notes numbered consecutive from **PK873522** to **PK873546** and bought the following items.

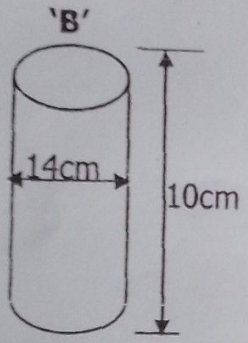
A dozen of books at **sh.2000 every two books**

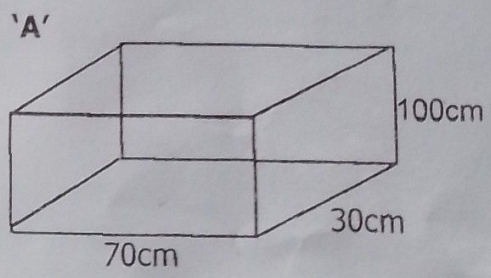
2kg of meat at sh. 14000 per kg

750ml of cooking oil at sh. 10000 per litre

Calculate his change .(5 mks)

24. Small cylindrical tins **(B)** are to be packed in a big box **(A).**(use $\pi = \frac{22}{7}$) (4mks)





(a) Find the number of cylindrical tins of size B that can fit in the first layer of a big box **A.**(2mks)

(b) Calculate the amount of space left after packing all the possible cylindrical tins of
into a big box A

25. Andrew is 8 years younger than his brother Tom who is 23 years old. After how m
years will the ratio of their age be 5:7? (4 mks)

26. Using a ruler, a pencil and a pair of compasses only. Construct a triangle PAN such that angle APN $=75^0$, line PA = 6·5cm and line PN = 5cm (4 mks)

(c) Measure line AN (1mk)

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27. (a) The average weight of 10 pupils is 20kg. If 2 pupils whose weight is15kg and 17k leave the group. Calculate the average age of remaining pupils. (4mks)

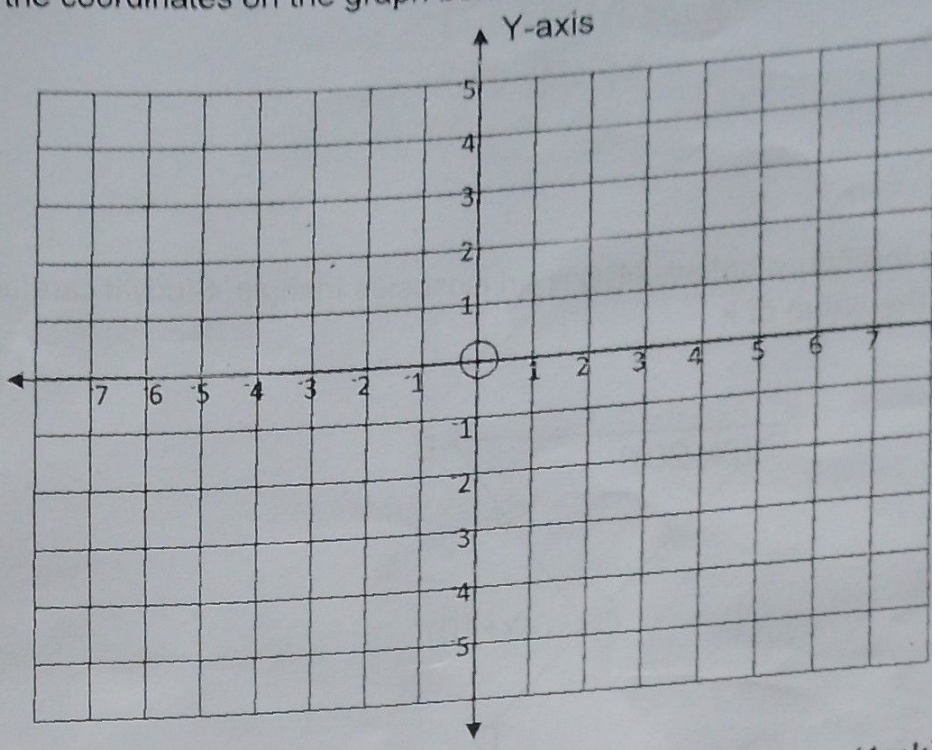
(b) Work out the **range** of the following integers

-2, -5, -4, 0, -11 and -7 (1 mk)

28. A motorist started driving at 7:30am from Kasese to Mbarara at an average speed 90km/hr. for 2 hours before he was stopped by the traffic police which held him for an hour. If a motorist was left with a quarter of the journey to reach Mbarara. Calcu the speed at which he drove in order to reach Mbarara at 11:30am
(5mks)

29. Given that coordinates M(-2,3), A(-2,0), K(4,0) and E(2,3)

(a) Plot the coordinates on the graph below



(b) Join the dots M to A, A to K, K to E and E to M (1mk

(c). Name the geometric figure formed (1mk

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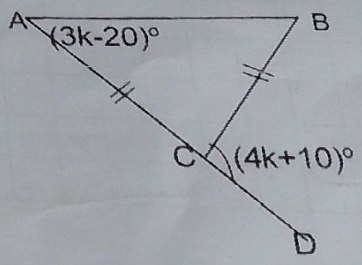
30. The sum of three consecutive multiples of three is 108. If the least mult find k and list the three multiples.

31.(a)Express 0·2666... as a common fraction in its lowest terms. (2

(b). Simplify: $\frac{2}{5}+\frac{3}{4}\div 1\frac{1}{3}$ (3mks)

32. (a)In the figure below, ABC is an isosceles triangle. Study it carefully and find the value of k

(3mks)



(b)A regular polygon has 12 right angles. Find its number of sides.

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