KABAROLE DISTRICT
PRIMARY LEAVING EXAMINATION JOINT MOCK 2024
MATHEMATICS

TIME ALLOWED 2HRS 30 MINUTES

	RANDOM No.							PERSONAL No.	
Index No.									

CANDIDATE'S NAME:.....

CANDIDATE'S SIGNATURE.....

SCHOOL:.....

FOR EXAMINER'S USE ONLY

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY		
Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

Turn Over

SECTION A (40 MARKS)

1. Work out:
$$\begin{array}{r} 214 \\ \times\ 2 \\ \hline \end{array}$$

2. Find the additive inverse of -8

3. Write **CDVII** in words.

4. The ratio of two numbers is 4:5 respectively. If their **GCF** is 6. Find the **LCM** of the two numbers.

5. Find the next number in the sequence below:
-44, -41, -38, -35, _____

6. Work out: 2 + 4 = _____ (finite 5) using a number line.

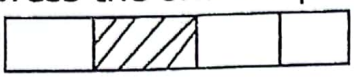
7. Given that set **P** ={ All first four composite numbers}. Find the number of proper subsets in set **P**.

8. Express $\frac{5}{11}$ as a recurring decimal.

9. Use **<** , **>** or **=** to complete the statement below.
9.84×10^{-2} _____ 3.04×10^{1}

10. Round off 29.98 to the nearest tenths.

11. Express the shaded part as a percentage.



12. With the help of a ruler, a pencil and a pair of compasses only. Construct an angle of 135^0. On the space provided below.

13. Given that $P = \frac{2}{6}$ and $Q = 2P$ Evaluate $(Q + P) - Q$

14. Given that PF 18 $=\{2 \times 3^2\}$ and PF 24 $= \{2^3 \times 3^1\}$. By using the above information of factors. Find the **HCF** of PF 18 and PF 24

15. Work out: 55.5 - 2.03 + 0.05

16. Simplify: 3m - k + 4m - 5k

17. Subtract 113_{five} from 432_{five}.

18. A cylinder of diameter 14cm has a volume of $6160cm^3$. Find the height of a cylinder.

19. Jolly went to the bed at twenty minutes to one in the morning. Express the time she went to the bed in the military time.

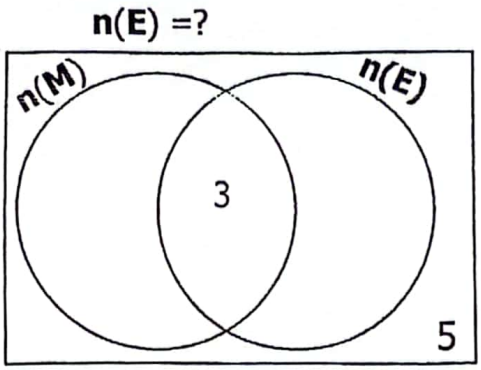
20. Aman was born in 20BC and died immediately after his birthday in 36AD. How old was he when he died?

SECTION B 60 MARKS

21. a) Find the multiplicative inverse of 0.2 (02mark)

b) Simplify: $\frac{0.2 + 0.04}{0.08 \times 0.2}$ (03mks)

22. In a class, 22 pupils like Mathematics (**M**), y pupils like English (**E**) while 03 pupils like both subjects as shown in the diagram below.



a) Complete the venn diagram above using the given information. (02marks)

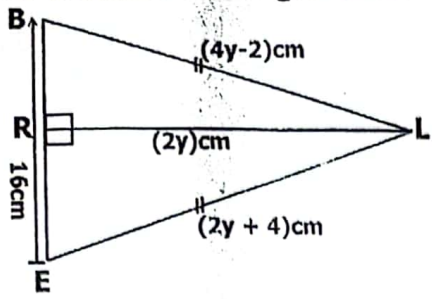
b) Calculate the number of pupils in class if the number of pupils who like English only is thrice the number of pupils who dislike English. (03 mks)

23. Halima used $\frac{1}{3}$ of her salary on food, $\frac{2}{5}$ of the remainder on clothing and saved the rest of her salary.

a) What fraction of her salary did she save? (03mks)

b) If she saved sh 42000, find her monthly salary. (02marks)

24. Study the isosceles triangle below and answer the questions below.



a) Calculate the length of **RL**. (03mks)

b) Work out the perimeter of triangle **BEL**. (02 mks)

25. Andrew Deo and Deus shared some money in the ratio of 3:5:6 respectively.

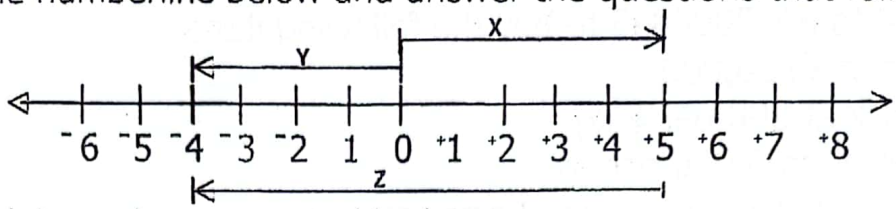
(a) If Andrew and Deo got sh 40,000 more than Deus,how much money did they share altogether? (04 mks)

(b) How much did Deus get? (01marks)

26. Mummy went shopping with a bundle of sh. 2000 notes numbered from MK 7000894 to MK 7000845 to buy the following items.
2kg of meat at sh 30,000
3 litres of milk at 800 per $\frac{1}{2}$ kg
5kg of sugar at sh 6,000 per kg
18 oranges at sh 1200 for every 3 oranges.

Calculate the balance she got? (06mark)

27. Study the numberline below and answer the questions that follow



(a). What integer is represented by letters; (03mks)

(i). X

(ii). Y

(iii). Z

(b). Write the mathematical statement for the above numberline. (02mks)

28. A motorist riding from town **M** reached town **N** at 12:30pm. The journey took 100minutes.

a). At what time did the motorist leave town **M**? (03mks)

b) If town **N** is 60km from town **M**, find the average speed of the motorist in km/h. (02mks)

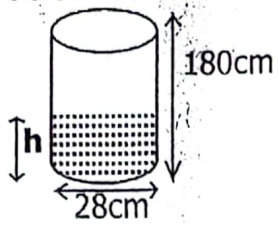
29. a) Using a ruler, a pencil and a pair of compasses only, construct triangle **NEC** where line **CE** =7.4cm, angle **ECN** =75^0 and angle **NEC** =60^0. (3mks)

b) Measure length **NC**. (02mks)

30. a) Round off 48952 to the nearest hundreds. (2mks)

b) What number has been expanded to give (5x100) + (6x1) + $\left(9x\frac{1}{100}\right)$ (2mks)

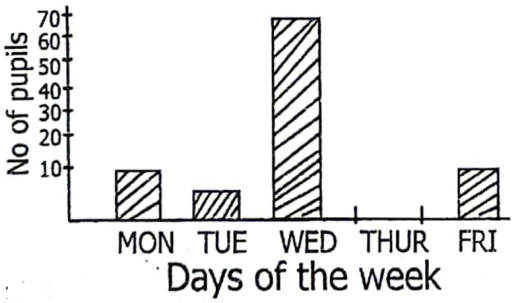
31. The tank below contains 61.6 litres of water.



a) Calculate the value of h (Take $\pi = \frac{22}{7}$) (02mks)

b) How many litres are needed to fill the tank? (03mks)

32. The graph below shows pupils who were absent on different days of the week. There are 70 pupils in the class



a). Which day had the highest attendace. (01mks)

(b). How many pupils were present on Monday (01mks)

(c). Find the average attendance for the whole week. (2marks)

Good Luck