BUTALEJA DISTRICT ACADEMIC BOARD.
PRIMARY LEAVING MOCK EXAMINATION 2023
MATHEMATICS

TIME ALLOWED 2 HOURS AND 30 MINUTES

NAME:_____

SIGNATURE:_____

INDEX NUMBER

RANDOM NUMBER

Read the following instructions Carefully:-

FOR EXAMINERS USE ONLY

Qn.No	Mrks	Exr'sNo
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
Total		

Instructions

1. The paper has two sections A and B
2. Section A has 20 questions (40mrks)
3. Section B has 12 questions (60 mrks)
4. All answers must be written using blue or black
5. Unnecessary crosses or changes may lead to loss of marks
6. Any handwriting that cannot be easily read may
7. Do not fill anything in the boxes indicated for examiners use

SECTION A: 40 MARKS.

Answer all the questions in this section.
Questions 1 to 20 carry two marks each.

1. Work out: 32+40

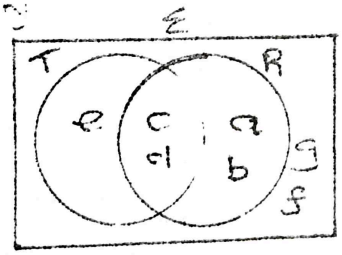
2. Write "Fifty Seven thousand seventy two" in words.

3. Simply: 4g - 6g+5g

4. Find the next number in the sequence

   5, 10, 17, 28, 41,_____

5. Use the venn diagram below to find $n(R)^{I}$



6. Write CXLII in Hindu-Arabic numerals.

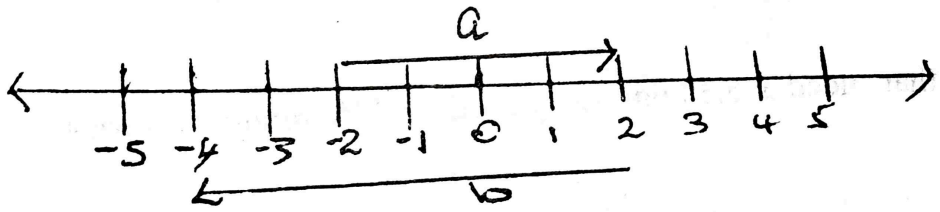
7. Mary got a loan of shs. 800,000 from platinum credit service at 15% per year. Find the interest she paid after a period of 6 months.

8. Today is Thursday. Samson celebrated his Birthday 53 days ago. On which day of the week did he celebrate his Birthday?

9. Given that a = $\frac{9}{10}$ and b=$\frac{5}{10}$. Find the value of a-b in its simplest form.

10. Without dividing, show that 3564 is divisible by 11

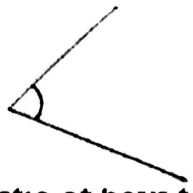
11. Write the integers represented by letters **a** and **b** on the number line below:



(i) a _____

(ii) b _____

12. Using a ruler, a pencil and a pair of compasses only, bisect the angle below.

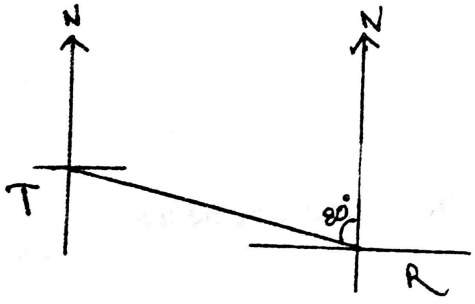


13. In a class, the ratio of boys to girls is **4:5**. If there are **45** girls, how many boys are in the class?

14. Rose has 50kg of sugar to be packed in 250 gram packets. How many packets will he get?

15. If  represents 9 balls, draw pictures to represent 54 balls

16. In the figure below, find the bearing of R from T



17. A football,match that ended at 5:30 pm was played for 110 minutes. At what time did it begin?

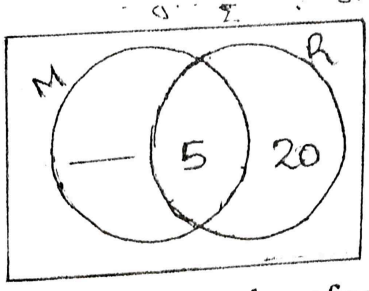
18. Solve for y: $5^{y} \div 5 = 125$

19. A die is tossed once. What is the probability that a number a factor of 2 will appear on top?

20. Express 7 ½% as a fraction in its lowest terms.

SECTION B 60 MARKS

21. In a class, 5 pupils eat both Rice (R) and matooke (M). 20 pupils eat Rice only,(y+3) pupils eat matooke only and (y-2) pupils eat none of the two foods.
(a) Use the information above to complete the venn diagram below. (2 marks)
Find the value of y. (2 marks)



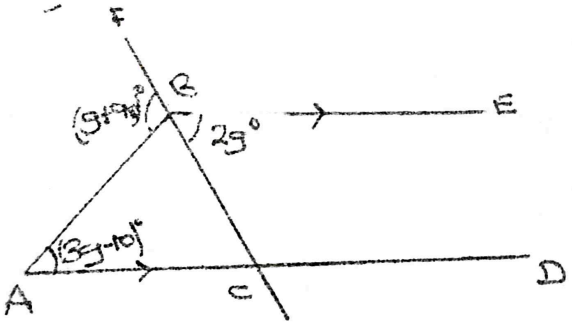
(b) Given that the number of pupils who eat Rice only is twice the number of pupils who eat none of the two foods, find the value of y. (2 marks)

(c) How many pupils eat matooke only? (2 marks)

22. (a) Find the number which has been expanded below:-
$(4x10^{2}) +(3x10^{1})+(2x10^{-1})$ (3 mark)

(b) Given that $3r2_{four}=54_{ten}$
Solve for digit r (3mrks)

23. Study the diagram and use it to answer questions below. BE is parallel to AD. FBC is a straight line. Angle FBA=$(g+90^{0})$



(a) Find the value of g. (4 mrks)

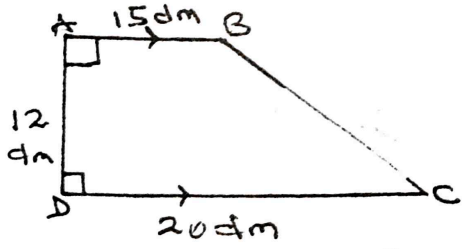
(b) Find the size of angle ABC (1 mrk)

24. (a) Using a pencil, a ruler and a pair of compasses only construct a regular quadrilateral KLMN where KM =LN =9cm. (4mrks)

(b)Measure line LM in cm (1 mrk)

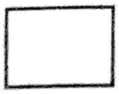
25. Maaka bought a pair of shoes at shs 140,000 and bought a bag at shs 90,000 He later sold a pair of shoes making a profit of 10% and sold a bag a bag making a loss of 10%. How much money altogether did he get after selling the two items? (4 mrks)

26. Study the trapezium below and use it to answer questions that follow:-



(a) Calculate the area of the figure. (2mark)

(b) Work out the perimeter of the figure (3marks)



27. (a) Solve for d: $2(d - \frac{1}{4}d) = 9$ (3marks)

(b)i) solve the inequality

$$6 > \frac{2y}{3} > 4$$

(1 mark)

(ii) Find the solution set

28. Ashy went to market and bought the following items:-
2 litres of milk at shs 2500 per litre.
500 gms of salt at shs 2000 per kg
24 ripe bananas at shs 1600 for every 8 ripes.

(a) Calculate the total cost of the items (4mrks)

(b) Ashy paid shs10,000 for all the items, what discount was she given? (1mrk)

29. A taxi driver left town P for town Q of 10,45am, driving at a speed of 100km per hour. The driver reached town Q at 2:15pm.

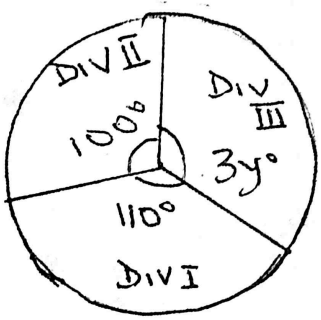
(a) Calculate the time taken by the driver to reach town Q. (3marks)

(b) Find the distance between town P and Q. (4marks)

30. Find the product of the value of 6 and the value 5 in number 7650 (4marks)

31. David is 16 years old. Benard is 26 years old. In how many years will David be $\frac{2}{3}$ as old as Benard?(4marks)

32. The pie chart below shows number of candidates who passed in their different grade at mock Examinations.



(a) Find the value of y. (3marks)

(b) If 10 less candidates passed in DIVII than Division III, find the total number of candidates who sat for mock Examinations. (3marks)

END