THE REPUBLIC OF UGANDA

KIBAALE DISTRICT ACADEMIC BOARD

PRIMARY LEAVING INTERNAL CONTINUOUS ASSESSMENT, 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random Number						Personal Number		

Candidate's Name: .....

Candidate's Signature.....

School's Name .....

District: .....

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

Read the following instructions carefully:

1. This paper has **two** Sections: **A** and **B.**
2. Section **A**, has **20** short-answer questions **(40 marks)** and Section **B** has **12** questions **(60 marks)**
3. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a blue or black ball - point pen or fountain pen. Diagrams should be drawn in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary changes of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	Exrs' No.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: (40 Marks)

Answer all questions in section A and each number carries 2 marks.

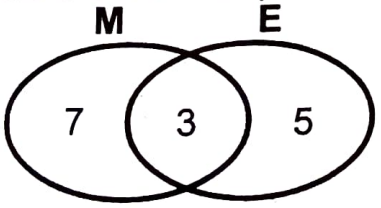
1. Work out: 15 + 24 =

2. Simplify: 5m + 9n + 6m +4n

3. Work out : $\frac{4}{7} \div \frac{2}{3}$ =

4. Convert 110_{two} to base ten.

5. The venn diagram below shows pupils who like English (E) and Mathematics (M). Study it carefully and answer the question below.

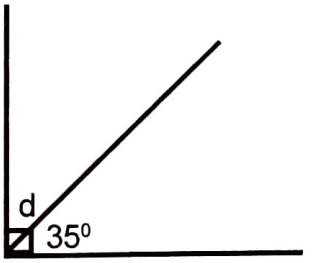


How many pupils like Mathematics?

6. Simplify: $^{+}7 - {}^{-}4$ =

7. Find the sum of first three odd numbers.

8. Study the figure and answer a question below.



Find the size of angle d in degrees.

9. Work out: 92m - 38cm

10. It takes 2 hours to clean a school compound with a machine. Express the time in minutes.

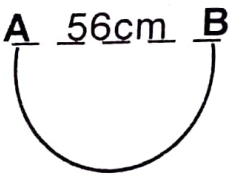
11. Find the mode of the scores of a P.7 pupil in a series of mathematics tests, 40, 70, 50, 80, 70, 90.

12. Find the next number in the sequence
50, 48, 45, 40, _____

13. The area of a square garden is $144m^2$. Find the length of each side.

14. The probability that a P. 7 candidate will pass a mathematics test is 0.7. What is the probality that she will fail the examination?

15. Find the length of the arc AB in the diagram below. (use $\pi = \frac{22}{7}$)

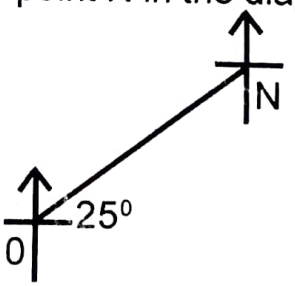


16. A pupil bought a dozen of exercise books for sh. 6000. He later sold each book at sh.700. Calculate the profit.

17. Alituha built a circular hut of a circumference 66 metres using poles. The poles were fixed at intervals of 1.5 metres. Calculate the number of poles Alituha used.

18. A motorist travels 54km in 20 minutes. Find the speed of the motorist in kilometre per hour.

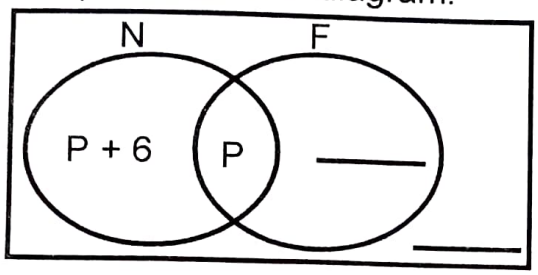
19. Find the bearing of point O from point N in the diagram.



20. Solve the inequality. $3 - 3r < 15$

SECTION B: (60 Marks)

21. (a) In a class, 40 pupils play football (F), P+6 play Netball (N) only, (P) pupils play both games and 4 play neither of the games. Use the information to complete the venn diagram. *(2marks)*



(b) If 30 pupils play Netball. Find the value of P *(3marks)*

22.(a) Find the product of the value of 3 and the value of 7 in the number 4730. *(3marks)*

(b) Write 735 in Roman numerals. *(2marks)*

23. A bag costs sh. 6000 more than a belt. The cost of 2 belts is the same as a third of the cost of a bag.

(a) Find the cost of a bag.

(5marks)

24. A parent bought the following items in the table below from a shop.

(a) Complete the table

(4marks)

Item	Price	Amount
_____ bars of soap	sh.2200 per bar	sh. 11000
2 loaves of bread	sh. _____ per loaf	sh. 11000
$2\frac{1}{2}$ kg of salt	sh. 800 per kg	sh. _____
Total expenditure		sh. _____

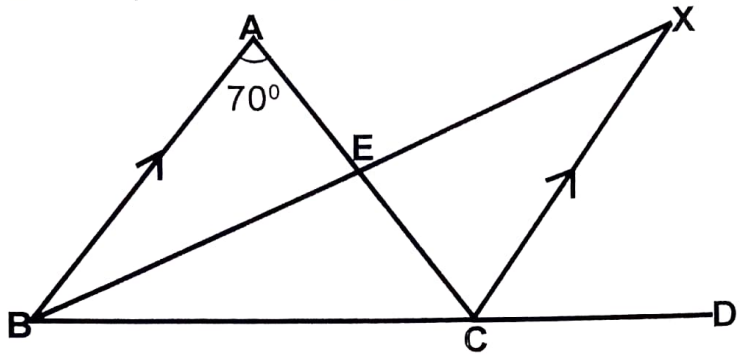
(b) If a parent paid sh 20,000, what was the parent's percentange discount?

(2marks)

25. Work out: $\frac{0.75 - 0.25}{0.65 + 0.35}$

(4marks)

26. In the figure below BCD is a straight line, BX bisects angle ABC. Line AB is parallel to line XC. Angle BCE = 50^0 and angle BAC = 70^0.



(a) Find the size of the angles

(i) CEX *(3marks)*

(ii) DCX *(2marks)*

27. (a) Express $\frac{4}{15}$ as a recurring decimal. *(2marks)*

(b) Simplify: $\frac{4}{5} \times \frac{3}{7} \div \frac{9}{14} \times 2\frac{7}{15}$ *(3marks)*

28. (a) Given that r = 2g and g = 5. Find the value of 4g + 3r *(3marks)*

(b) Write the solution set for the inequality: X < 9. *(2marks)*

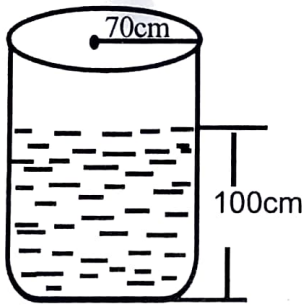
29. (a) Using a pencil, a ruler and a pair of compasses only, construct a rectangle MNRS where MN = 6cm and line NR =4cm. *(4marks)*

(b) Measure the length of the diagonal NS. *(1mark)*

30. The average weight of 4 girls is 56kg. When two girls join the group the average weight becomes 58 kg. The sixth girl is 8kg heavier than the fifth girl. Find the weight of the sixth girl. *(5marks)*

31. A school bus taking pupils to a game park covered 75% of its journey in $1\frac{1}{2}$ hrs. The bus travelled at a steady speed of 80km per hour. How far is the school from the game park? ***(5marks)***

32. Study the figure and use it to answer the questions below.



(a) Calculate the volume of the water in the tank. (use $\pi = \frac{22}{7}$) ***(3marks)***

(b) Find the capacity of water in litres. ***(2marks)***

END*