SURE KEY EXAMINATION
MAGIC SERIES ONE

PRE PLE
2026

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	**Random No.**						**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** and **district name** on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **15 printed pages** altogether
3. Answer **all** questions. **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 ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: **"For Examiners' Use only"** and boxes inside the question paper.

FOR EXAMINERS´ USE ONLY		
Qn.No.	**MARKS**	**EXR´S NO.**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

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SECTION A: 40 MARKS

Answer **all** questions in this Section

Questions **1** to **20** carry two marks each

1. Multiply: 24 x 2.

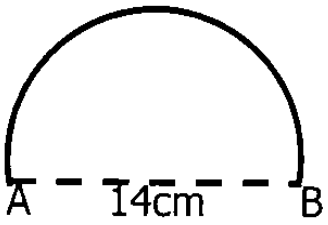
2. Write in figures: Four hundred four thousand forty.

3. Given that set A = {1, 3, 4, 5, 7, 8} and set B = {3, 4, 6, 7, 8, 10}
   Find n(AUB)

4. Express 149 in Roman numerals.

5. How many 500g packets of sugar can be obtained from a 50kg bag?

6. Find the length of the curved line AB.

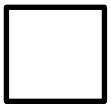


7. Expand 845.6 using indices.

8. Workout: 3 ÷ 2 = _____ (finite 5)

9. The direction of Mukono from Kampala is $N80^0E$. What is the direction of Kampala from Mukono?

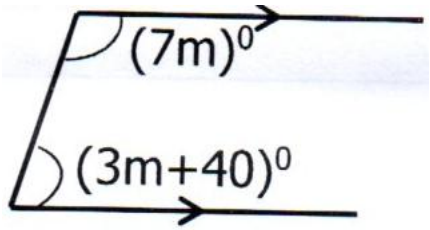
10. Express 10m/sec as km/hr



11. Change 0.242424…to a common fraction.

12. Joan sold a pair of shoes at sh.9,000 making a loss of 10%. Find buying price of the same pair of shoes Joan sold.

13. Find the value of m in the diagram below.



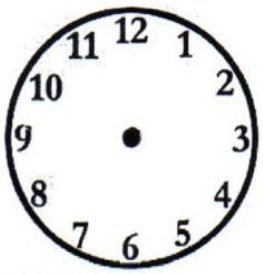
14. Trees are planted along a straight road at an interval of 10m. Find the distance from the first pole to the eleventh pole.

15. In a class there are 35 boys and 25 girls. Find the ratio of girls to the whole class.

16. The area of a square board is $196m^2$. Find the distance round this square board.

17. Using a ruler, a pencil and a pair of compasses only, construct an angle of 135^0.

18. Show a quarter to 5 o'clock on the clock face below.



19. The average age of 5 girls is 14 years. When the 5^{th} girl leaves the group, the average age becomes 13 years. Find the age of the 5^{th} girl.

20. The table below shows the class attendance in one week.

Day	Mon	Tue	Wed	Thur	Fri
Attendance	36	40	37	32	35

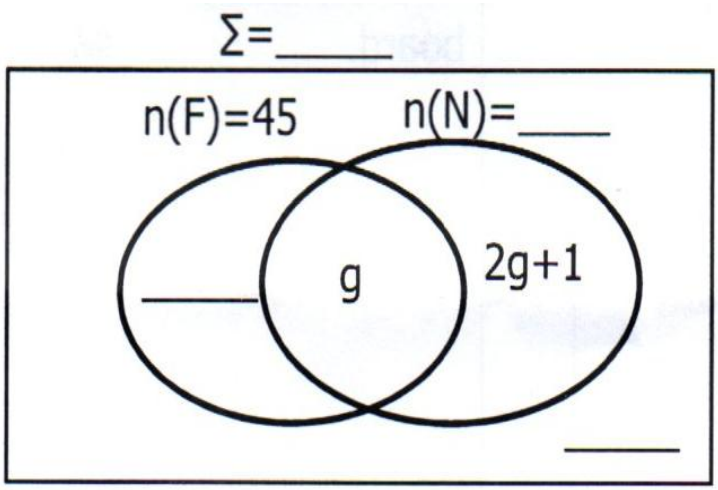
If all pupils were present on Tuesday, what was the total number of absentees in the whole week?

SECTION B: 60 Marks

Answer **all** *the questions in this section.*
Marks for each question are indicated in the brackets.

21. In a school, 45 pupils play football (F), (2g + 1) pupils play netball (N) only, g pupils play both games while 4 pupils play other games.

(a) Use the above information to complete the Venn diagram below. **(03 Marks)**



(b) If 28 pupils play netball, find the total number of pupils who play games in the whole school. **(02 marks)**

22. Zawadi Kent went shopping and bought the following items;

- Three litres of milk at five thousand shillings.
- Two and half kilograms of rice at four thousand shillings per kilogram.
- Five hundred millilitres of cooking oil at six thousand shillings per litre.

(a) How much money was she supposed to pay for all the items?

(**03 marks**)

(b) If she had twenty thousand shillings at the beginning and she was given a change of three thousand eight hundred shillings, calculate her discount. (**02 marks**)

23. Given the digits 2, 3, 0, and 8.

(a) Write the highest 4-digit number that can be formed using the digits without repeating (**01 mark**)

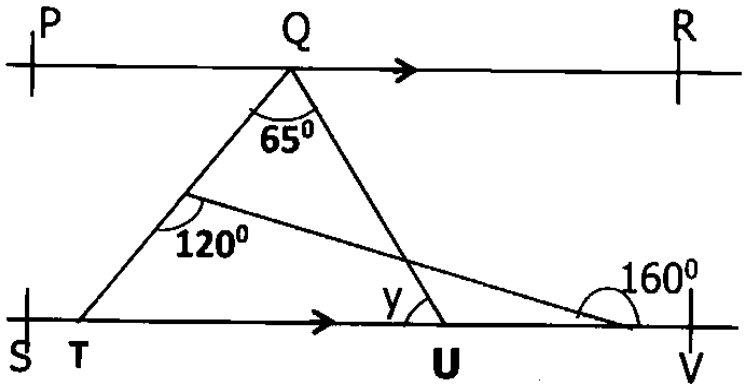
Turn Over

(b) Work out the difference of the highest and lowest numbers that can be formed. (**02 marks**)

(c) Round off the lowest number to the nearest thousands.

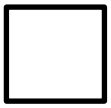
(**02 marks**)

24. The figure below shows line segment **PR** which is parallel to line segment **SV**. Study and use it to answer the questions that follow.



(a) Find the size of angle **PQS** (**02 marks**)

(b) Find the size of angle **QUT** (**02 marks**)

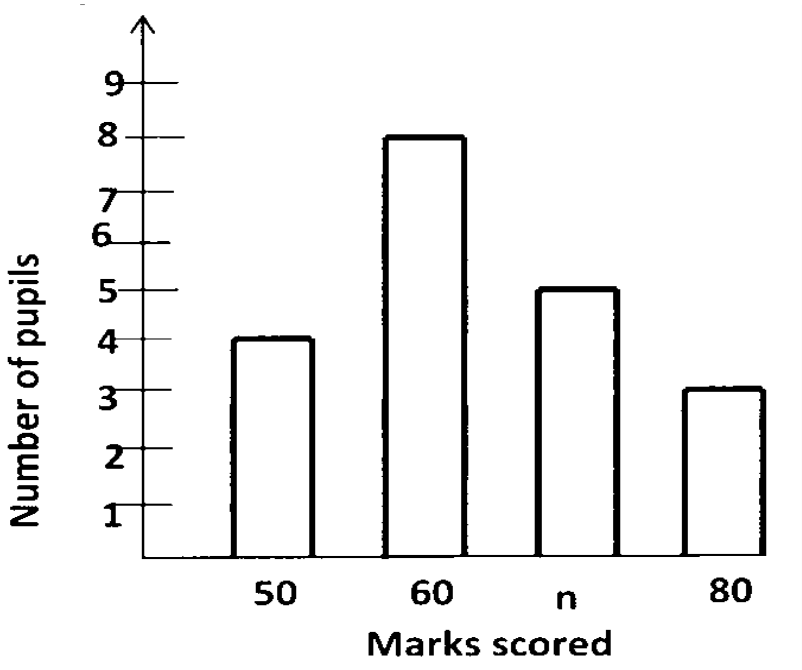


25. Mzee Mudhola sold his cow at shs.600,000. He used a quarter of the money to renovate his house and banked the remaining amount of money in a bank which offers a simple interest rate of 10% per year.

(a) How much money did he use to renovate his house? (**03 marks**)

(b) If he kept his money with the bank for 2 years. Calculate the interest he got after that period. (**03 marks**)

26. The bar graph below shows the performance of pupils in a mathematics test.

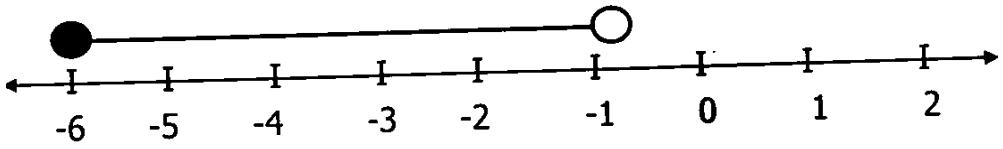


(a) How many pupils did the test? (**02 marks**)

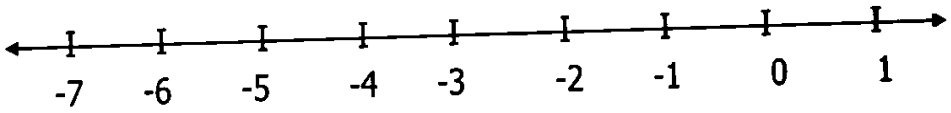
(b) If their average score is 62, find the value of **n**.

(03 marks)

27. (a) Write the solution set for X represented on the number line below. (**01 mark**)



(b) Use the number line below to work out 3 x -2.
(**02 marks**)



(c) Work out **-**8 **-** ¯10 **(02 marks)**

Turn Over

28. (a) Using a pair compasses, a ruler and a pencil only, construct a quadrilateral PQRS where line PR = 8cm and line RS = 6cm, $\angle$ PRS = 45^0.

(**04 marks**)

(b) Calculate the area of the figure constructed above.(**02 marks**)

29. Omulodi left Kampala at 9:30a.m. driving at a speed of 90km/hr. and reached Soroti at 1:00p.m.

(a) How long did it take him to reach Soroti? (**03 marks**)

(b) Work out the distance between Kampala and Soroti.

(**02 marks**)

30. Circular cards of radius 7cm are to be cut out of a sheet of aluminum foil of length 60cm and width 30cm.

(a) How many circular cards can be cut out? (**03 marks**)

(b) What area of the sheet will be wasted after cutting out cards? (**02 marks**)

31. (a) Arrange the following fractions in ascending order.

$\frac{2}{3}, \quad \frac{1}{2}, \quad \frac{3}{4}$ (**03 marks**)

(b) A car broke down after covering $\frac{2}{7}$ of the journey, it was remaining with 105km to complete the journey. How long was the whole journey? (**03 marks**)

32. Joan, Jane and Jesca shared sh.720,000 such that Joan got twice Jane's share and Jesca got sh.8,000 less than Jane. How much money did each get? (**05 marks**)

END