

PRIMARY SEVEN

MATHEMATICS

TIME ALLOWED: 2HRS 30 MINUTES

END OF TERM 1 EXAMINATIONS 2024

INDEX NO.

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NAME _____ SIGNATURE _____

SCHOOL _____ STREAM _____

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 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer **ALL** questions in Section A and Section B. Answers must be written in the spaces provided.
5. All answers must be written using a blue or black ball-point pen or ink. Only diagrams may be done in pencil.
6. Unnecessary alternation of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. The use of electronic calculators and Mathematical tables is not allowed.

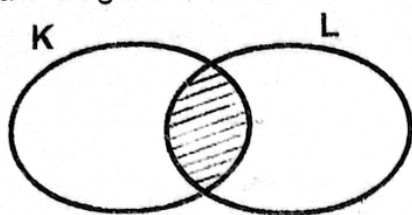
FOR EXAMINER'S USE ONLY

PAGE NO	Page 2	Page 3	Page 4	Page 5	Page 6	Page 7	Page 8	TOTAL
MARKS								
SIGN								


SECTION A (40 MARKS)

1. Work out 32 from 108.

2. Describe the unshaded region in the diagram below.



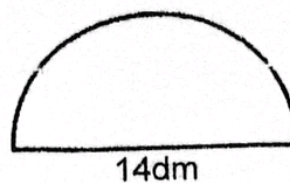
3. Work out using associative property:
 $35 \times 2 \times 10$

4. Write  in Roman Numerals.

5. Simplify $a^6 \div a^3$

6. Solve $3a - 5 = a + 7$

7. Find the perimeter of the figure below. (Use $\pi = \frac{22}{7}$)



8. Joel invested sh.150,000 in a bank that pays simple interest rate of 5% per month. Calculate the simple interest after 2 years.

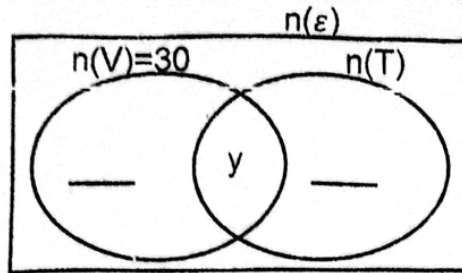
9. Simplify $+6 - -8$

10. Wilson was the 7th boy from either side of the line. How many boys are on the line?

11. Round off 43.873 to the nearest 1 decimal place.
12. The area of a square garden is 196m^2 . Calculate the length of each side of the garden.
13. Evaluate $3.65 - 4.8 + 2.8$
14. If \oplus represents 1200 pupils in a school, find the number of pupils represented by $\oplus \oplus$.
15. Change 0.075kg to grams.
16. Find the G.C.F of 20 and 28.
17. 3 pencils cost sh.1300. Find the cost of a dozen of similar pencils.
18. Work out $1\frac{1}{3} \div \frac{2}{5}$ using multiple method.
19. Without dividing, prove whether 4228 is divisible by 4.
20. Arrange -4, -5, +3, -2, 1 in ascending order.

SECTION B (60 MARKS)

21. In a group of players, 30 players like volley ball (V), 7 like playing only Tennis (T), y like both games $2y + 3$ players play only volley and 5 like neither of the two.
- (a) Use the above information to complete the venn diagram below.



(b) Find the value of y .

(c) How many pupils are in the class?

(6mks)

22. The sum of 3 consecutive odd numbers is 33. If the largest number is y , find the numbers.

(4mks)

3. (a) Work out $203_{\text{five}} + 42_{\text{five}}$

(b) If $103_y = 44_{\text{six}}$, find the value of base y .

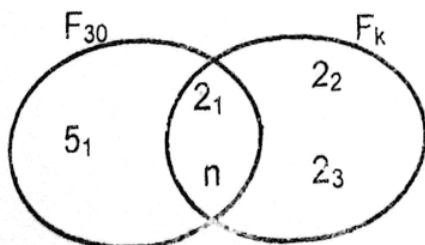
(5mks)

24. Amos went to the market and bought the following items.
1 $\frac{1}{2}$ kg of meat at sh.12000 per kg
3 pineapples at sh.2000 each.
0.5 kg of sugar at sh.3200 per kg.
A bunch of matooke at sh.20000.
(a) How much did he spend altogether?

(b) If he had a fifty thousand shillings note, what was his change?

(6mks)

25. Study the venn diagram below and answer questions that follow.



(a) Find the value of :

(i) n

(ii) k

(b) Work out the G.C.F of 30 and k.

(c) Find the L.C.M of 30 and k.

(6mks)

26. During the test a teacher could award 5 marks for every correct answer given and 2 marks were deducted for every wrong answer. A test had 20 questions.
- (a) Betty passed only 16 questions, how many marks did she get?

(b) If Moses scored 79 marks, how many questions did he answer correctly?

(5m)

27. Study and complete the magic square below by the showing the working.

9	—	5
—	8	—
—	—	7

(5m)

28. Digits 3, 0 and 6 were used to form 3-digit numbers without repeating a digit.
(a) Write the possible 3-digit numbers that were formed.

(b) Find the sum of the largest and smallest number formed.

29. A bus left Mbarara town for Kampala town with 62 passengers, at Masaka 12 passengers got out, at Katonga 8 passengers boarded the bus and at Mpigi 10 got out and 5 boarded heading to Kampala. (4mks)

(a) How many passengers reached Kampala town?

(b) If the bus fare from Mbarara to Masaka was sh.8000, how much money was collected?

(6mks)

0. (a) Simplify: $\frac{0.014 \times 3.6}{0.028}$