ZAMSA JUNIOR SCHOOL
BEGINNING OF TERM II EXAMINATIONS
2024

P.7 MATHEMATICS

Time allowed : 2 hours 30 minutes

INDEX NO. | | | | | | | | | |

Candidate's Name .....

Candidate's Signature.....

District Name .....

Read the following instructions carefully:

1. This paper has two sections: A and B.
   Section A has 20 questions and section B has 12 questions.
2. All the working for both sections A and B must be shown in the spaces provided.
3. All working must be done using a blue or black ball-point pen or fountain pen.
   Any work done in pencil other than graphs, pictures and diagrams will not be marked.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes 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		

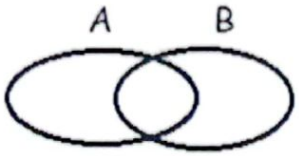
SECTION A

1. Add:

$$\begin{array}{r} 4\ 5\ 2 \\ +\ 4\ 3\ 4 \\ \hline \\ \hline \end{array}$$

2. Write 4032 in words.

3. On the Venn diagram below, shade the region representing (A∪B)



4. Find the reciprocal of $\frac{3}{4}$

5. Simplify: $\frac{1}{2} - \frac{1}{3} + \frac{1}{4}$

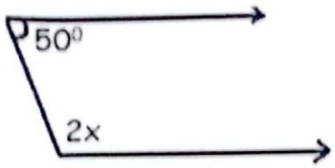
6. Using a ruler and a pair of compasses only, construct an angle of 60^0.

7. Find the square of the next number in the sequence. 1, 3, 6, 10, 15, _____

8. Change $\frac{19}{4}$ as a mixed fraction.

9. How many lines of folding symmetry has the figure below?

10. Calculate the value of x in the figure below.



11. Find the circumference of a circle whose diameter is 35cm. (use π as $\frac{22}{7}$)

12. Simplify: $7m - 2n - 4m + 8n$

13. Simplify: $3^2 \times 3^5$

14. Find the square root of $\frac{81}{144}$

15. A 40 minute lesson ended at 10:30am. At what time did it start?

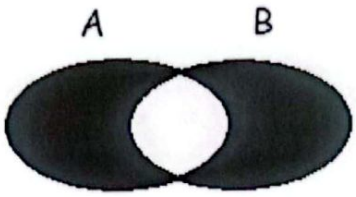
16. A taxi broke down after covering $\frac{1}{3}$ of the journey. If it was remaining with a distance of 40km, how long was the whole journey?

17. Change 2011_{three} to base ten.

18. The area of a rectangle is $24cm^2$. Find the perimeter if its length is 8cm.

19. Round off 4.862 to the nearest hundredths.

20. Describe the unshaded part in the diagram.

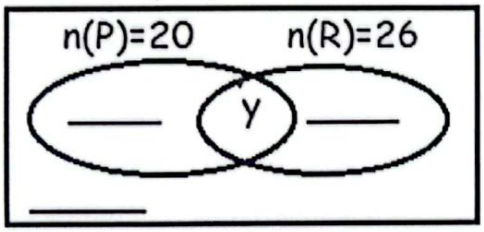


SECTION B

21. In a class of 39 pupils, 20 enjoy posho (P), 26 enjoy Rice (R), y enjoy both while 6 like neither of the two food stuffs.

a) Use the information above to complete Venn diagram below. **3marks**

$n(\xi) = 39$



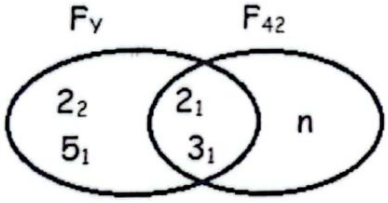
b) How many pupils enjoy both food stuffs? **2marks**

c) If a pupil is picked at random from class to clean the chalk board, what is the probability that he/she enjoys Rice only? **1mark**

22(a) Work out: $\frac{2}{3} \div \frac{1}{3} + \frac{1}{2} - \frac{2}{3}$ **2marks**

b) Simplify: $\frac{7.2}{0.6 \times 0.12}$ **2marks**

23. Use the Venn diagram below to answer the questions that follow.



a) Find the value of:

i) Y **2marks**

ii) n **2marks**

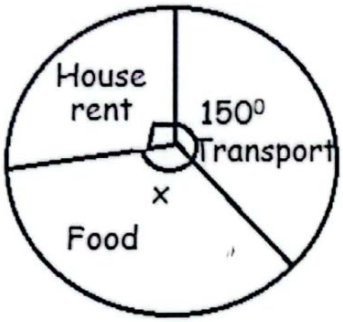
b) Find the LCM of 42 and Y. **2marks**

24. The sum of 3 consecutive even numbers is 24.

a) Find the numbers. (2mks)

b) What is the range of the numbers?. (2mks)

25. The pie chart below shows how Tom spends his monthly salary of sh.12600. Study it and answer questions 1hich follow:

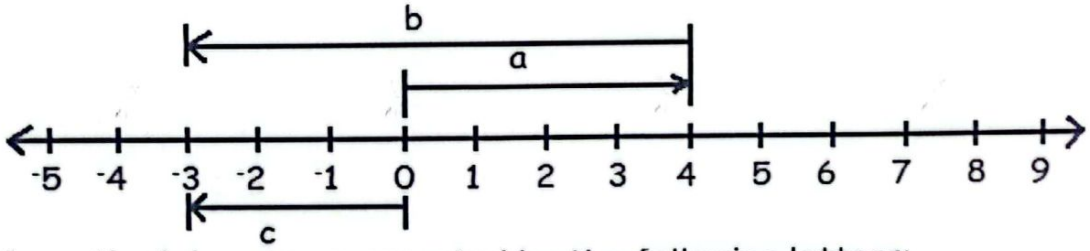


a) Find the value of x. (2mks)

b) How much does Tom spend on transport? (2mks)

c) What percentage of his income does he spend on house rent? (1mk)

26. Study the number line below and answer questions that follow:



a) Name the integers represented by the following letters; (3mks)

i) a _____ ii) b _____ iii) c _____

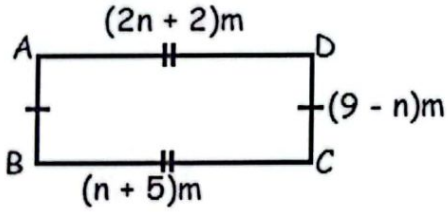
b) Write a mathematical statement for the above number line. (1mk)

27. Lutaaya gave his three children Mayinja, Semakula and Nantume shs 1,200,000 to share in the ratio of 2:5:3 respectively.

a) How much money did each get? (3mks)

b) How much more money did Semakula get than Mayinja? (1mk)

28. Study the figure below and answer the questions that follow:



a) Find the value of n. (2mks)

b) Work out the area of the rectangle. (2mks)

c) Calculate the length of its diagonal BD. (2mks)

29. The table below shows marks scored by pupils in a certain test.

Marks scored	40	80	60	20
Number of pupils	4	1	2	3

a) Find the number of pupils in class. (1mk)

b) Find the range. (1mk)

c) Calculate the mean score. (3mks)

30. At Okodomiti P/S, two bells ring at an interval of 40min and 45 min for upper and lower section respectively.

a) After how many minutes will the two bells ring together? (3mks)

b) If they last rung at 5:00am, when will they ring together again? (2mks)

31. Using a pair of compasses, ruler and a pencil only, construct a triangle ABC where $\overline{AB}$ = 6cm $\angle ABC = 60^0$ and $\angle BAC = 45^0$. (4mks)

b) Measure LC (1mk)

32. Odutu wentto the market and bought the following items:

- 2kg of beans at shs.1800 a kg.
- $2\frac{1}{2}$kg of rice at shs.2000 per kg.
- 4 tomatoes at shs.1000
- 500g of salt at shs.1600 a kg.

a) Calculate his total expenditure. (4mks)

b) If he had a twenty thousand shilling note, calculate his change. (2mks)