BUYENDE DISTRICT ACADEMIC BOARD
MOCK EXAMINATIONS -2024
PRIMARY SEVEN
MATHEMATICS

Index no.

Time allowed: 2hours & 30 minutes

Name ....

School ....

DO NOT OPEN THIS BOOKLET UNTIL YOU TOLD TO DO SO

Read the following carefully

1. This paper is made up of two sections A and B.

2. Section A has 20questions(40 marks)

3. Section B has 12questions (60 marks)

4. Answer all questions. All answers for both sections

   A and B **MUST** be written in the spaces provided.

   No piece of papers will be provided for rough work.

5. All answers must be written in blue or black ball

   point pen or ink. Diagrams should be drawn in pencil

6. Un necessary alteration of work will lead to loss of marks

7. Any handwriting that cannot easily be read may lead

   to loss of marks.

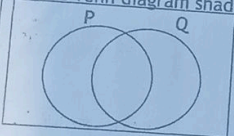8. Do not fill anything in the Box indicated for

   " Examiner's use only

TURN OVER

FOR EXAMINER'S USE ONLY

QN. NO	MARK	SIGN
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		
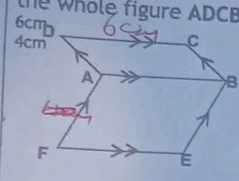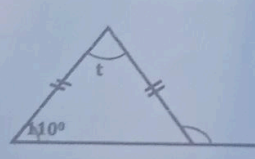
SECTION A

1.	Add: $1_{two} + 2_{three} + 3_{four} = \underline{\hspace{2cm}}_{ten}$	2.	Write XLIX in words
3.	Simplify : $-6 - ^-2$	4.	Find the next number in the sequence 1,5,9,13,17, _____

5.	On the venn diagram shade $(PnQ)^1$
	
		6.	Work out: hrs min
			         8 12
			   + 2 53
			       _____

7.	Solve: $4y - (y+4) = 5$	8.	A milk man bought a 20 litre jerrycan of milk at sh.24,000 and sold each liter at 1,300. Calculate his percentage profit.
9.	Calculate the circumference of a circle whose radius is 50 dm $\prod = 3.14$	10.	Divide: $\dfrac{14}{45} \div \dfrac{7}{9}$

11. write 497 in standard form	12. What number is half way between 2.4 and 7.6?

13. Given ABCD is a parallelogram and ABEF is a Rhombas. Find the perimeter of the whole figure ADCBEF.

14. Omar bought2 ½ dozens of pens at 81000. Find the cost of 1 pen.	15. Divide $8 \div 2$

16. Find the value of angle marked t.

17. In a box there are red pens and blue pens. The probability of picking Red pen is $\frac{1}{4}$. If thee are 15 blue pens, how many pens are in the box?	18. Calculate the simple interest earned on sh. 200,000 for a period of 2 years at a rate of 12 ½ % p.a.

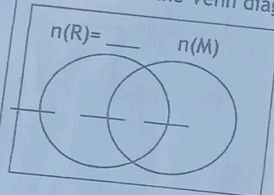| 19. A group of boys lined up as shown beow and oketcho was in the middle at point x. if okecho was the 16th from the four directions, how many boys were there altogether?	20. Using a pair of compasses, a ruler and pencil only construct and angle of 150º

19. A group of boys lined up as shown beow and oketcho was in the middle at point x. if okecho was the 16th from the four directions, how many boys were there altogether?

N
┼
x

20. Using a pair of compasses, a ruler and pencil only construct and angle of 150º

<div style="text-align:center">SECTION B</div>

21. In a family of **27** members, **13** eat rice (R) **18** eat potatoes (P) and M eat both.

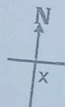a) Complete the Venn diagram to represent the above information.

$n(R)=$ ___ $n(M)$

b. Find the value of M.

22. Amina has beads in her hand bag, $\frac{1}{5}$ are red, $\frac{1}{8}$ of the remaining beads in the bag are blue and the rest are yellow. There are 25yellow beads in the bag. How many beads are there altogether in the bag?

| 19. A group of boys lined up as shown beow and oketcho was in the middle at point x. if okecho was the 16th from the four directions, how many boys were there altogether?

N
↑
—┼—
x | 20. Using a pair of compasses, a ruler and pencil only construct and angle of 150° |

SECTION B

| 21. In a family of **27** members, **13** eat rice (R) **18** eat potatoes (P) and M eat both. |
| a) Complete the Venn diagram to represent the above information.

n(R)= ___   n(M)
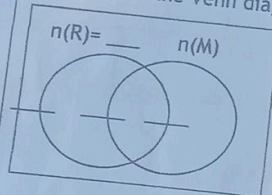
(two intersecting circles in rectangle) |
| b. Find the value of M. |

| 22. Amina has beads in her hand bag, $\frac{1}{5}$ are red, $\frac{1}{8}$ of the remaining beads in the bag are blue and the rest are yellow. There are 25yellow beads in the bag. How many beads are there altogether in the bag? |

| 23. | The table below shows marks scored in end of term maths exams by pupils. |

Marks	90	70	80	60
Frequency	3	1	2	4

a) How many pupils did the examinations?

b) Find the modal frequency	c) Calculate the average mark.

	b) Work out:
24. Subtract: a) $2y + 3$ from $3y + 5$.	$$\frac{7.2 \times 3.5}{0.15 \times 2.5}$$

| 25. | The figure below is a rectangular compound. Use it to answer the questions that folow; |
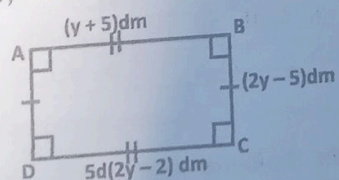
a) Find the value of y.

$(y + 5)$dm
A B
$(2y - 5)$dm
D $5d(2y - 2)$ dm C

b)	Calculate the perimeter of the compound.	c)	Find the length AC.

26. A motorist travelled from town A to town B at 50km/hr for 2 hours and then continued to town C at 120km/hr for 30 minutes.

a)	Find the total distance covered for the motorists for the whole jounery.	b)	Calculate the average speed of the motorist for the whole journey.

27. The table below shows items bought from a supermarket for a family meal. Use it to answer questions that follow.
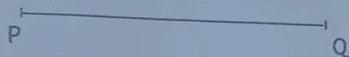
a) Complete the table;

Item	Quantity	Unit cost	Amount
Rice	5kg	Sh. 3200	sh._____
Meat	3 ½ kg	Sh._____	sh.28,000
Cabbages	_____ heads	Sh. 9000	sh.27,000
Tomatoes	2 ½ kg	Sh._____	sh.15,000
Total			_____

b) If 10% discount was given, how much did the buyer pay?

28. Line PQ below is one side of triangle PQR in which PR = 8 cm and angle RQP=120°
a) Using a ruler and pair of compasses only complete the triangle.

P ├──────────────────┤ Q

b) Measure QR.

| 29. Exapand 4306 using powers of ten. | b) Change 11_{ten} to binary. |

c) Work out $2 - 3 =$ _____ (mod 6)

30. The diameter of a wheel of a bicycle is 42 cm. How many revolutions can it make in a distance of 1.32km? Take ☐ as $\frac{22}{7}$.

7

31.	The ratio of men: women: babies in a village is 3:4:2 and there are 30 more women than men. Find the number of babies in the village.
	b) solve: 3-2x >11.

32.	A plane flew 800km north words from airport (P) to airport Q. It then flew 600km westwards to airport (R)		
a)	Draw a sketch for the planes' movement.	b)	Using a scale 1 cm to represent 100km, draw an accurate diagram showing the plane's movement.
c)	Find the shortest disance between airport P and R.	d)	Find the bearing of P from R.

END