

NATIONAL PRIVATE EDUCATIONAL INSTITUTIONS ASSOCIATION (NPEIA)

EXAMINATIONS

END OF TERM I 2023

MATHEMATICS PRIMARY SEVEN

TIME ALLOWED : 2 HRS : 30 MINS

Index no.

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Name : _____
School : _____
Class : _____ Stream : _____
District : _____ Signature : _____

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. Section A has 40 questions and section B has 15 questions
2. Answer **ALL** questions. Answers to both sections A and B must be written in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any working done in pencil other than graphs, pictures and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks
6. Any hand writing that cannot easily be read may lead to loss of marks.
7. Do not fill anything in the box indicated for 'Examiner's use only' and those inside the question paper

**FOR EXAMINER'S USE
ONLY**

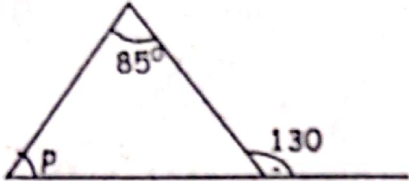
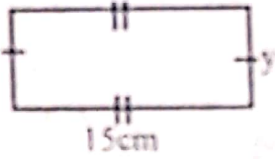

QN. NO.	MARK	EXR'S No.
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		



SECTION A (40 marks)

1 ✓	Work out: $36 \div 3$	2 ✓	Write 64,017 in words.
3	Simplify: $6y - 3n - 4y + 5n$	4 ✓	Simplify: $\frac{2}{5} + \frac{1}{4}$
5	Find the greatest common factor (G.C.F) of 18 and 12.	6 ✓	The cost of 8 books is shs. 7,200. What is the cost of 3 similar books?
7	Work out: $\begin{array}{r} 111 \text{ two} \\ + 111 \text{ two} \\ \hline \\ \hline \end{array}$	8	Write CDXLV in Hindu Arabic numerals.
9	Given that set R has 31 proper subsets, Find $n(R)$.	10	Correct 9.997 to one place of decimal.



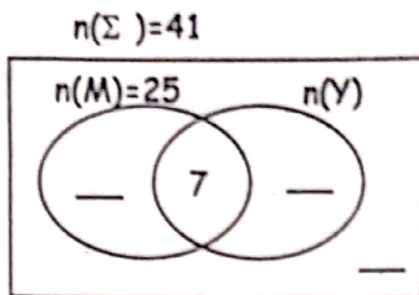
11	Find the area of a circle whose radius is 14dm. (Take $\pi = \frac{22}{7}$)	12	Simplify: $-9 - -9$
13	Use the diagram below to find the value of the angle marked p 	14	Convert 38_{ten} to binary base.
15	Adronah read a book from page 13 to page 20. How many pages did she read?	16	The area of the figure below is 60cm^2 . Find value of y. 
17	Given that $Y = \{2_1, 2_2, 3_1, 3_2\}$. Find the value of y.	18	Find the square of the next number in the sequence below: 2, 3, 5, 7, _____
19	A trader made a loss of sh.3000 after selling a shirt at sh. 12,000. Calculate the percentage loss.	20	Construct a perpendicular line at point H on a line segment below. 

SECTION B (60 marks)

- 21 In a class of 41 pupils, 25 like milk (M), 7 like both milk and yoghurt (Y), $(a + 5)$ like only yoghurt and 4 dislike the two.

(3 marks)

(a) Complete the Venn diagram below.



(b) Find the number of pupils who like yogurt.

(2 marks)

- 22 The sum of 3 consecutive odd numbers is 33. Find the range of the numbers if their median is r .

(4marks)

- 23 a) Add:

	Hr	Min
	2	40
+	1	30

(2marks)

- b) A car travelled at a speed of 60Km/h and covered a distance of 40Km. Calculate the time taken by the car.

(2marks)



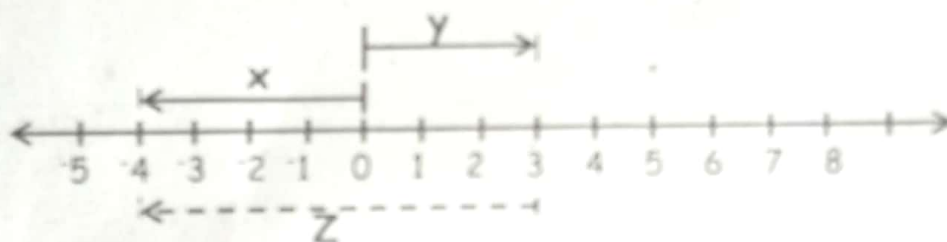
- 24 Three gun men were firing at a target at intervals of 10 minutes, 12 minutes and 15 minutes respectively. If they all fired at the start,
- a) After how many minutes will the three gun men fire together again? (3 marks)
- b) If the gun men fired together at 8:00 am for the first time, at what time did they fire together again? (2 marks)
- 25 Mwansa went to the market and bought the following items:
- 2kg of sugar at sh.3000 each.
 - 3kg of rice at sh.1, 500 each every half a kg.
 - 500g of salt at sh. 1,200 each kg
 - $\frac{1}{2}$ kg of meat at 14,000 per kg
- a) Find Mwansa's expenditure (5 marks)
- b) If Mwansa went with sh.50,000. How much change did he take home? (1 mark)
- 26 In a bus park, three boys sell loaves of bread daily. Abel sells three times as many loaves of bread as Bob, and Charlie sells 13⁴ loaves of bread more than Abel. If the three boys sell a total of 62 loaves daily, how many loaves of bread does Charlie sell? (4 marks)

- 27 The table below shows marks scored by pupils in an examination.

Marks	40	50	60	80
Frequency	2	4	1	3

- (a) How many pupils did the test? (2 marks) 2
- (b) How many pupils scored above the range of the marks? (2 marks)
- (c) Calculate the average mark of the pupils. (2 marks)

- 28 Study the number line below and answer the questions that follow.



- (a) Write the integer represented by each of the arrow.

(i) $x =$ _____ (ii) $z =$ _____ (iii) $y =$ _____ (1 mark @)

Write the mathematical sentence represented on the number line. (2 marks)

- 29 Using a pair of compasses, a ruler and a pencil only, construct a rectangle HERA where $HE = 5.5$ cm and $HA = 3$ cm. (4 marks)

Measure angle **HEA** in degrees.

(1 mark)

- 30 a) Shantel planted 69 rows of trees in her farm. How many trees did she plant if every row has 287 trees? (2marks)

- b) Divide 2727 by 3. (2marks) c) Simplify: $18 - (2 \times 6) \div 3$ (2marks)

- 31 a) Charles cut a water melon into 12 equal pieces. Brian ate 4 pieces and Joseph ate 3 pieces. What fraction of water melon was left? (2 marks) b) Work out: $\frac{0.12 \times 0.8}{0.4 \times 0.6}$ (3 marks)

- 32 The time table below shows the movement of a bus from Mombasa to Kampala. Study it and answer the questions that follow. b) How long does the bus stay at Iganga? (2 marks)

Town	Arrival	Departure
Mombasa		1:00 am
Nairobi	6:45 am	7:15 am
Busia	3:15 pm	3:30 pm
Iganga	4:30 pm	5:55 pm
Kampala	6:55 pm	

- c) If the distance between Kampala and Busia is 123km, calculate the average speed of the bus between these two towns. (2 marks)