NATIONAL PRIVATE EDUCATIONAL INSTITUTIONS ASSOCIATION-(NPEIA) EXAMINATIONS END OF TERM I 2023 MATHEMATICS

TIME ALLOWED: 2HRS: 30 MINS

PRIMARY SIX

Name								
School	:							
Class	:							
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. Section A has 20 questions and section B has 12 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.
- Learning 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 - 5			
6 -10			
11-14			
15-17	Strater 4		
18-20			
21-23			
24-26			
27-29			
30-32	VO)		
TOTAL			



S	ECTIONA
1. Add: 3 4 1 + 1 2 5	2. On the Venn diagram below, shade set
3. Find the next two numbers in the sequence. 1, 3, 6, 10,	4. Think of a number and multiply it by four. The answer is 28. What is the number?
5. Arrange the following integers starting with the smallest3, 0, +4, -6, 2	6. A farmer bought a goat at shs. 105,000 and sold it at a loss of shs. 11,000. How much did he sell the goat?
7. A church service which took 1 hour and 45 minutes ended at 12:00 noon. When did it begin?	8. Find the sum of the value of 6 and the place value of 0 in the number 34,106.
How many lines of folding symmetry has a kite?	10. The cost of 3 rulers is sh. 6,000. How many similar pencils can I buy with sh. 18,000?

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11. Given that represents 5 trees. In	12. The perimeter of a square is 40dm. Find the length of each side of a square.
Mr. Muko's farm there are these trees.	

1111	
If each tree was bought by a timber	
dealer at shs. 20,000, how much money	
did Mr. Muko receive?	
13. Change $33\frac{1}{3}$ to an improper fraction.	14.Muko Dairy Corporation produces 456995 litres a day and Jesa farm
	produces 979995 litres of milk a day.
	How much milk do they produce
	altogether in one day?
15.List down all the factors of 18.	
13.List down an the factors of to	
	farm. How many half litre packets of milk did
16.Lydia collected 80 litres of milk from her she collect?	farm. How many half litre packets of milk did
	farm. How many half litre packets of milk did
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17.Nantamu obtained the following marks in	
17.Nantamu obtained the following marks in a series of tests;	
17.Nantamu obtained the following marks in a series of tests; 15, 10, 25, 15 and 20. Calculate her	
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19.Rose is 7 years old. Write her age into base five.	20. The time is eighteen minutes to noon. Write the time in figures.

SECTION B (12 QUESTIONS - 60 MARKS) 21. In a class of 40 learners, X like Fish (F), 24 like meat (M) and y learners do not like any of the two dishes. 5 learners like both Fish and Meat. (3 marks) (a) Complete the above Venn diagram n(F) = Xn(M) = 2413 (b) Find the value of y. (2 marks) (c) What is the probability that when a learner is picked at random from the (2 marks) class, the learner likes only one type of dish? 22. Kamya went to the market and bought 10 sheep for shs. 650,000 and 5 (3 marks) goats for shs. 600,000. Which of the two types of animals was more expensive?



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3. Study the diagrams below and use them to find the values of the unknown.	(4 marks)
a) 3× 1 b) A	1111
40	
2x 60° y	
2x 60° y	
	1995
	- minimum
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(2 marks)
24. In a class of 240 pupils, $\frac{1}{4}$ of them are 9 years, $\frac{1}{3}$ are 10 years and $\frac{3}{12}$ are	
above 12 years.	
(a) How many pupils are 10 years old?	
	(2 marks)
(b) What is the difference between the number of pupils who are above 12	(3 marks)
years and 9 years?	
25. Study the number line and use it to answer questions.	(3 marks)
25. Study the number line and use it to answer questions	
P *	
6 5 4 3 2 1 0 1 2 3 4 5 6 7	
(i) Write down the integers represented by letters on the above number li	ne.
(1) Write down the integers represented by return on the	
a=b=	
	(2 mark
(ii) Write down the mathematical centence	
(ii) Write down the mathematical sentence.	(2 1031
(ii) Write down the mathematical sentence.	



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26.(a)Find the sum of all even numbers between 10 and 20	(2 marks)
	POLICE !
	1 1
(L) What is the smallest country of the state of the shared among 12 or	(3 marks)
(b) What is the smallest number of mangoes that can be shared among 12 or 8 pupils and one mango remains?	(o marno)
o pupits and one mango remains:	
27.(a) Using a ruler, pencil and a pair of compasses only, construct a regular	(4 marks)
polygon with 6 sides using a radius of 4cm.	
	- /4
8. The figure below is of a cuboid.	
o. the figure below is of a cuboid.	
9cm.	
7cm 6cm	(2 marks)
(a) How many vertices does the cuboid have?	(= mar 83)
(b) Work out the total surface and of the state of	
(b) Work out the total surface area of the cuboid above.	(3 marks)
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(a) represent	t her answers in a Ver	20 and 30. in diagram.		(3 marks)
F20	F 50			(5 marks)
(b) From the	Venn diagram 6 10	000 000	120	
(o) Hom the	Venn diagram, find th	ne GCF of 20 an	id 30-	(2 mark)
ATT				100
0.(a) Given tha (i) 3x + z	at $x = 6$, $y = 4$ and $z =$	3. Work out the (iii) 4(x + y)		(4 marks)
	*			
(b) Solve for	$g_{x} = 7 - g = 4$			(2 marks
(b) Solve for	$g_{x}^{2} - 7 - g = 4$			(2 marks
Sant II				
1.Below is Mr.	g; 7 - g = 4 Okenen's shopping b			
1.Below is Mr. follow.	Okenen's shopping b	bill. Use it to ans	wer the questions that	
1.Below is Mr. follow.		Unit cost	Total Shs. 2,400	
1.Below is Mr. follow. Item Soap	Quantity 3 pairs 2kgs	Unit cost Shs.	Total Shs. 2,400 Shs. 6,400	
1.Below is Mr. follow. Item Soap Sugar	Quantity 3 pairs 2kgs sachets	Unit cost Shs. Shs. Shs. Shs. 400	Total Shs. 2,400 Shs. 6,400 Shs. 1,600	
1.Below is Mr. follow. Item Soap	Quantity 3 pairs 2kgs sachets 3 loaves	Unit cost Shs. Shs. Shs. Shs. Shs.	Total Shs. 2,400 Shs. 6,400 Shs. 1,600 Shs.	
1.Below is Mr. follow. Item Soap Sugar Omo	Quantity 3 pairs 2kgs sachets	Unit cost Shs. Shs. Shs. Shs. Shs.	Total Shs. 2,400 Shs. 6,400 Shs. 1,600	
1.Below is Mr. follow. Item Soap Sugar Omo Bread	Quantity 3 pairs 2kgs sachets 3 loaves Total Expenditu	Unit cost Shs. Shs. Shs. Shs. Shs.	Total Shs. 2,400 Shs. 6,400 Shs. 1,600 Shs.	
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(b) If he had gone with shs. 50,000. Calculate his change.	(1 mark)
1 1000	
2. The graph below shows the death rate of cows on a farm that had 360 cows.	
50	
40 -	
30 -	15 50
20 -	1.2E (I)
10	
그리트 이 그리고 있다면 아이들이 되는 것이 보고 있다면 하는데 하는데 하는데 되었다면 하는데 하는데 하는데 이 사람이 되었다면 하는데	
MONDAY TUESDAY THERESDAY FRUDAY SATURDAY SUNDAY	
Days of the week	
(a) Which day had the highest death rate?	(1 mark)
(b) Which day did not have any record of death?	(1 mark)
	yo.
(c) Work out the total number of cows that remained on the farm that week.	(3 marks)
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