BOBI WINE PEOPLE POWER NUP



PRE-PLE EXAMINATION 2023

MATHEMATICS (ITEM 3 of 4)

EMIS	No.		Perso	onal N	lo.

Candidate's Name	e:	 	
Candidate's Signa	ature:	 	
District ID No.			

Read the following instructions carefully.

- 1. This paper is made up of two Sections: A and B.
- 2. Answers to both sections must be written in the spaces provided in full sentences.
- 3. Section A has 40 questions (40 marks)
- 4. Section B has 15 questions (60 marks)
- 5. Attempt all questions. All answers to both sections A and B must be written in the spaces provided.
- 6. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **NOT** be marked.
- 7. Crossing out of answers will lead to loss of marks.
- 8. Any handwriting that cannot be easily read may lead to loss of marks.

FOR EXAMINERS USE						
	ONLY					
QN. NO.	MARK	SIGN				
1 - 10						
11 - 20						
21 - 30						
31 – 40						
41 – 43						
44 – 46						
47 – 49						
50 – 52						
53 – 55						

SECTION A

1.Workout: 3 0 7

2. Write 97 in Hindu Arabic numerals.

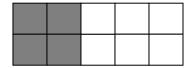
3.Solve <u>2P</u> ²	=	24
3		

- 4.Round off 29.561 to the nearest ones.
- 5.Express 12056kg in tones.

6.Simplify: ⁻7 - ⁻2

7.Find the next number in the sequence.

8. What percentage of the figure is unshaded?



9. Find the median if 5, 2, 0, 3 and 4

10. Find the value of 2(a-b), if a = 5 and b = 3

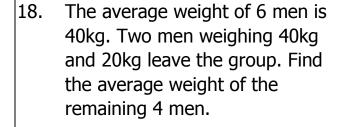
11. A maths workshop ended at 9:10am. At what time did it start if it took 55 minutes.

12. Workout: 24 ÷ 1.5

13. Using a pair of compasses, a ruler and a pencil only, bisect the given angle below.



14. Subtract 3a – 2b from 5a + 3b



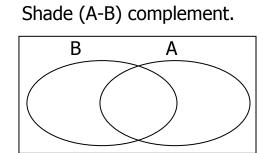
Express 0.666...... as a

fraction.

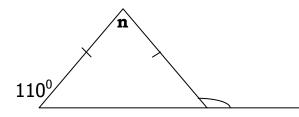
17.

19.

15. Simplify: $10^5 \div 10^2$



16. Find the value of n in degrees.



20. The interior angle of a regular polygon is 120. How many sides does the polygon have?

SECTION B (60 MARKS)

21. a) In a class, the ratio of boys to girls is 3:5, if there are 24 boys in the class, how many girls are there?

b) How many more girls than boys are in the class?

22. Find the area of the figure below.

$$2(x + 1)cm$$

(5x - 7)cm

- 23a) Simplify 3(2x y) (x 3y) b) Given that n = 12, w = 8 and P = 9.

Workout

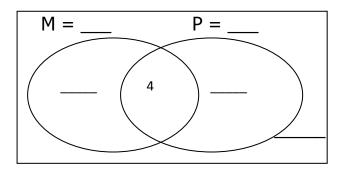
np + 4w

2p

24. A driver travelled for 3 hour 45 minutes at an average speed of 64km/hr. How long did it take on the return journey at an average speed of 80km/hr?

Musoke is 10 years younger than Ali. In 5 years time, Ali will be twice as 25. old as Musoke. How old is Musoke now?

- 26. In a class of 56 pupils, 30 pupils eat matooke (M), X pupils eat potatoes (P) only, 4 pupils eat both matooke and potatoes while 2 pupils eat neither of the two types of food.
- a) Complete the Venn diagram given below using the information above.
 - b) Find the value of x.



c) How many pupils do not eat potatoes?

- 27. a) Joy went with sh. 21,000 and bought the following;
 - 3kg of sugar at sh. 2400 each
 - 4 packets of salt for sh. 1000.
 - 2kg of rice at sh. 2400 per kg.
 - 1 ½ kg of meat at sh. 5000per kg

How much change did she get after paying for all the items?

28.	a)	Using a pair of compasses, a ruler and a pencil, construct a Rhombus ABCD in which each side is 5cm and angle ABC = 60° .
	b)	Measure the length of diagonal BD
29.	The a)	digits 3, 4 and 5 are used to form three digit numbers. Write down the possibility space for the numbers formed.
	b)	Find the probability that the number formed is odd.

30. a) Given that;

Y = 2x - 5, complete the table

X	2	0		5	
Υ			3		7

b) Using the above coordinates, plot them on the graph below and join the coordinate points.

						8							
						7							
						6							
						5							
						4							
						3							
						2							
						1							
						4							
-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7
-6	-5	-4	-3	-2	-1	-1	1	2	3	4	5	6	7
-6	-5	-4	-3	-2	-1		1	2	3	4	5	6	7
-6	-5	-4	-3	-2	-1	-1	1	2	3	4	5	6	7
-6	-5	-4	-3	-2	-1	-1 -2	1	2	3	4	5	6	7
-6	-5	-4	-3	-2	-1	-1 -2 -3	1	2	3	4	5	6	7
-6	-5	-4	-3	-2	-1	-1 -2 -3 -4	1	2	3	4	5	6	7

31. The table below shows the number of pupils in each class in a school.

P1	P2	P3	P4
30	36	30	24

Draw a pie chart of radius 4cm to represent the above information.

32a) The head teacher of our school got a personal loan of 2400, 000/- from centenary Bank at a rate of 20% per annum. Calculate the simple interest he is supposed to pay after nine months.
b) John and Martha shared 4 apples in a ratio of 3:2 respectively. How many apples did each get?
END