

UGANDA NATIONAL EXAMINATIONS BOARD PRE – PRIMARY LEAVING EXAMINATIONS (GREENHILL) 2023

MATHEMATICS

Time allowed: 2 hours 30 minutes

Candidates Name	e:	 	 	 	 	
Candidates' Sign	ature:	 	 	 	 	
School Random I						
District ID.						

Random No.

Read the following instructions carefully:

Index No.

- Do not write your **school** or **district name** anywhere on this paper.
- This paper has two sections A and B. Section A has
 questions and section B has 12 questions.
 This paper has 12 pages printed altogether.
- Answer all questions. All the working for both sectionsA and B must be shown in the spaces provided.
- All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will <u>NOT</u> be marked.
- 5. **No calculators** are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting that cannot be easily ready may lead to loss of marks.
- Do not fill anything in the box indicated: "For examiners' use only" and the boxes inside the question paper.

FC	R EXAMI	NERS'				
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						

Personal No.

SECTION A: 40 MARKS

Answer **all** questions in this Section Questions **1** to **20** carry two marks each

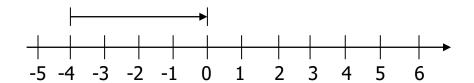
2. If
$$a = 7$$
, find the value of $a^2 + a$

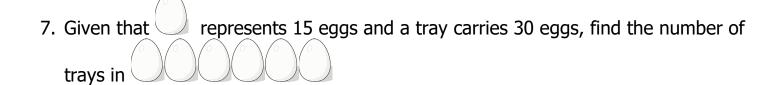
4. Write "Eighty thousand, eight hundred eight," in figures.

5. Factorise completely: 2xy - 4x

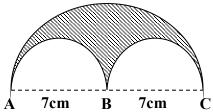


6. What integer is represented by the arrow on the numberline below.





8. The figure below is made up of 2 small semicircles and one big semi circle.



Find the perimeter of the figure.

9. Express shs. 400 as a percentage of sh. 1600.

10. Find the next number in the sequence;

1, 8, 27, 64, _____

11. Drop a perpendicular from point A to meet line CD at point M.





12. A 50-minute test ended at 11:00 a.m. At what time did it begin?

13. Represent: 1010_{two} on an abacus.

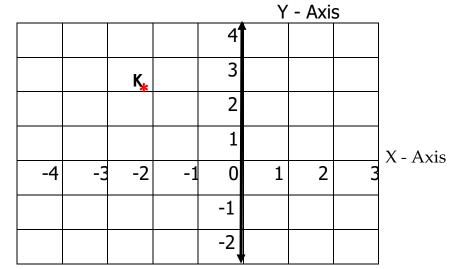
14. Using the clock face below, write the afternoon shown.



15. Work out the square root of: $1^{\frac{11}{25}}$



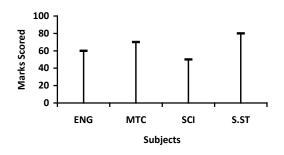
16. From the grid below, give the co-ordinates of point K.



17. The ratio of red pens to blue pens in a box is 2:3 respectively. How many red pens are in the box if the number of blue pens is 15?

18. Find the fractional equivalent of 0.7272 in its lowest terms.

19. The line graph below shows Katongole's performance in term I examinations.



What was Katongole's lowest mark?

20. Binojjo deposited shs. 150,000 in a bank that offers a simple interest rate of 4% p.a. How much was Binojjo's interest after a period of 8 months?

SECTION B: 60 MARKS

Answer **all** the questions in this Section

Marks for each question are indicated in brackets

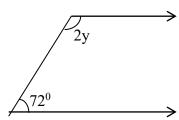
21. a) At a birthday party, children were served with 2 queen cakes each, adults were served with 3 meat pies each and each member who attended was served with a bottle of soda. If 48 queen cakes and 72 meat pies were served, how many people attended the party?

(3 marks)

b) If a crate of soda contains 24 bottles and costs 12,000/= how much was spent on soda's?

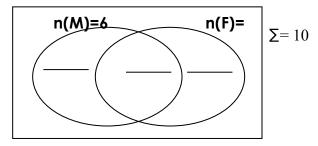
(2 marks)

22. (a) Study the figure below carefully and find the value of y. (2 marks)



b) The complement of $2x - 10^0$ is 50. Find the value of **x**. (2 marks)

- 23. In a family of 10 members. 6 members eat meat (M), 4 members eat both meat and Fish (F) while (y) members eat only Fish.
 - a) Represent the above information on the venn diagram below. (3 marks)



b) Find the value of y.

(2 marks)

c) How many members eat fish?

- (1 mark)
- 24. Two bells are rung at intervals of 40 minutes and 50 minutes for lower and upper pimary classes respectively.
 - a) After how many minutes will the two bells be sounded together?

(3 marks)

b) If they are sounded together for the first time at 8:00 a.m. at what time will the two bells sound together for the second time? (2 marks)

25. a) Simplify: 2(x-3) + 3(3x-1) = 13.

(3 marks)

b) Work out: $\frac{0.72 \times 1.8}{0.9 \times 2.4}$

(3 marks)

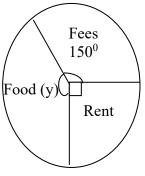
26. In a test, 3 pupils scored 50 marks each, 2 pupils scored 60 marks each, 4 pupils scored 80 marks each and 1 pupil scored 90 marks. Find the average mark of the pupils in the test.

(4 marks)

27. a) Work out: (88 x 4) – (48 x 4) using the distributive prop	erty only. (2 marks)
b) Write 0.00726 in scientific form.	(1 mark)
c) Musa a teacher at Greenhill Academy, wrote three digits; 3 blackboard. Write the smallest three digit number that can be digits above.	
28. Lubanga drove at 55km/hr for 2 hours from town A to town continued to C at 40km/hr for 3 hours. Calculate his average s journey.	

Turn Over 8

29. The pie chart below shows how Mr. Don spends his monthly salary of shs. 720,000. Use it to answer questions (a),(b) and (c).



a) Find the value of y.

(2 marks)

b) How much does Don spend on Rent per month?

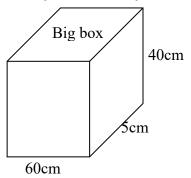
(2 marks)

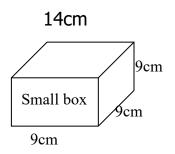
c) How much less does Don spend on food than fees?

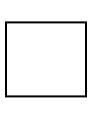
(2 marks)

30. The diagram below shows a big box 60cm long, 50cm wide, 40cm high and a small box 9cm long, 9cm wide and 9cm high.

Study it carefully and answer the questions that follow.

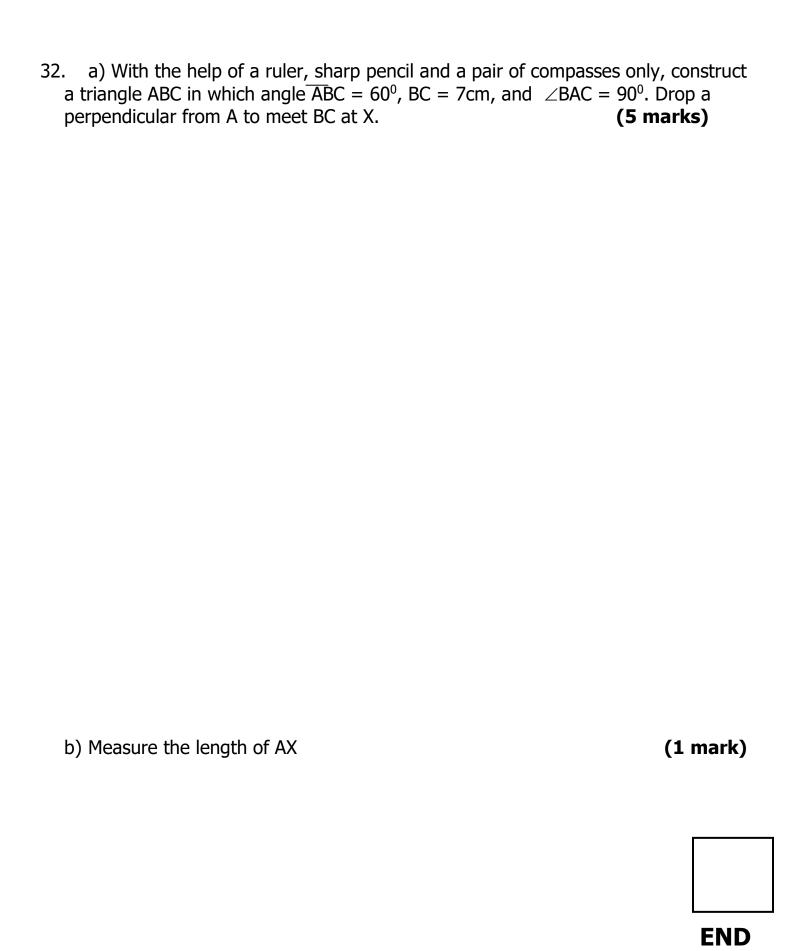






	If such small boxes are to be packed into the big box.			
	a) Find the number of small boxes that will be packed in the first I box.	ayer of the big		
		(2 marks	5)	
	b) How many layers will fill the big box?	(2 marks	s)	
	c) How many small boxes will fill the big box?	(2 marks	s)	
31	. Okello went shopping and bought the following items. 4 kg of rice at shs. 1800 per kg			
	3kg of posho for shs. 1300 each kg 500g of onions at shs. 2000 per 250gm.			
	A bunch of matooke for shs. 9000 a) Work out his total expenditure.	(4 marks	s)	
	b) If Okello was offered a discount of 10% how much did he pay?	(2 marks	s)	

Turn Over 10



Turn Over 11