BUGANDA EXAMINATIONS COUNCIL (BECO) PRIMARY SEVEN MOCK EXAMINATIONS - 2025 **MATHEMATICS**

	Time Allowed: 2 hours 30 min	ates.		
Index	No.		965= AV	
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READ THE FOLLOWING INSTRUCTIONS:- 1. The paper has two Sections A and B.		FOR EXAMINERS' USE ONLY		
2.	Section A has 20 questions (40 marks)	ONLI		
3.	Section B has 12 questions (60 marks)	Number	Marks	Sign
4.	Attempt All questions. All answers to both sections A	1-10		
5.	and B must be written in the spaces provided. All answers must be written using a blue or black ball-	11-20		
	point pen or ink. Diagrams should be drawn in pencil.	21-30		
6.	Unnecessary changes of work may lead to loss of	2.50		
	marks.	31-32		
7.	Any handwriting that cannot be easily read may lead to loss of marks	TOTAL		_
0	Do not fill anything in the boxes indicated for			

examiner's use only.

SECTION A (40 MARKS)

- 1. Work out 81 ÷ 3
- 2. Write twenty thousand two hundred two in figures
- 3. Given that R = 2, 3, 5, 7 and $K \cap R(2, 3)$. Find $\cap (K)$ if K only = $\{0\}$

4. Work out $1_{3}^{2} - \frac{3}{4}$

5. Simplify 2 - (r - 2)

6. A debate lasted for 14 hours and ended at 2.10p.m. At what time did the debate start?

7. In the space below draw an angle of 110° using a protractor, a pencil and a ruler.

8. A piece of cloth measures 2.75 metres. How many pieces of cloth of length 0.5 centimeters can be cut from the cloth?

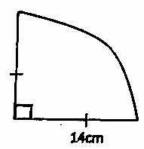
9. Solve: y + 2 = 1 (finite 7)

- 10. The mean age of 7 pupils 13 years. Find the total age of the pupils
- 11. The prime factors of $72 = \{2_1, 2_2, 2_3, 3_1, X\}$. Find the value of X

12. Round off 3.799 to one place of decimal

13. Given that $k = \frac{1}{4}$ and $a = \frac{1}{2}$, find the value of q + k

14. Work out the perimeter of the figure below:- $\left(\pi = \frac{22}{7}\right)$



15. Given that the exchange note is 1Ksh. = Ugshs.35, find the cost of a radio which in Kenya shillings which costs 827950 Uganda shillings.

16. - Find the complement of 29°.

Express 10¹₂ litres as cubic centimeters.

18. Work out 1000_{two} - 11_{two}

19. Solve $t-3 \ge -2$

20. Decrease 40 eggs by 40%

SECTION B (60 MARKS)

21(a) Find the number whose scientific notation is 1.75×10^2 .

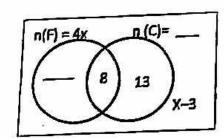
(02marks)

Solve $2^{2p} \times 2^p = 64$. (b)

(02marks)

- In a family, 4x members eat fish (F), 8 members eat both Chicken (C) and Fish, 13 members eat chicken only while x - 3 do not eat any of the two. 22.
- Use the above information to complete the Venn diagram below. (a)

(02marks)



(b) Given that 14 members do not eat chicken, find the total number of members in the (03marks) home.

23(a) Change 17_{ten} to the binary system.

(02marks)

(b) Find the value of $m : m + 11_{two} = 101_{two}$.

(02marks)

- The interior angle of a regular polygon is five times its exterior angle.
- (a) Calculate the number of sides of the polygon.

(03marks)

(b) Work out the interior angle sum of the polygon.

(02marks)

7 7

Mwanje rides 2.97km from his home to school. The wheel of the bicycle has a diameter of 63cm, how many revolutions does the wheel make to cover the distance? 25.

 $\left(use\ \pi\ as\ \frac{22}{7}\right)$

- A girl went to shop items as shown in the table. 26.
- (a)

V En	COUNT
Complete the table below.	TY UNIT PRICE Shs. 37,500 Shs. 8,000 S
TTEM QUANTITY 2½kg	Shs. Shs. Shs. 4,000 Shs. 7,500 Shs. 7,500 Shs. 7,500
Meat 3.5 litres	Shs
Cooking oil 1½ bars Soap Soap A Copenditure	heginning?

If she remained with shs. 10,000, how much money did she have at the beginning?

(b)

(Olmark)

(04marks)

On a farm of animals, 10% are goats, 25% are cattle, 18% are sheep and the rest are the farm?

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(05marks)

28(a) Using a pair of compasses, a pencil and a ruler, construct a triangle FEL where EF = 6.5cm, angle EFL = 45° and angle LEF = 60°. (05marks)

(b) Drop a perpendicular from L to meet EF at Q. (01mark)

29. The table below shows the arrival and departure time for a taxi from Kampala to Jinja

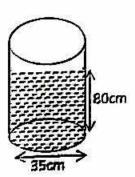
Town	Arrival time	Departure	
Kampala		8.15 a.m	
Banda	8.30 a.m	8,45 a.m	
Mukono	9:15 a.m	10:05a.m	
Largazi	10:40 a.m	10: 05 a.m	
Jinja	11:30 a.m	117. 172 11.111	

(a) At what time in the 24 hour clock, does the taxi leave Mukono?

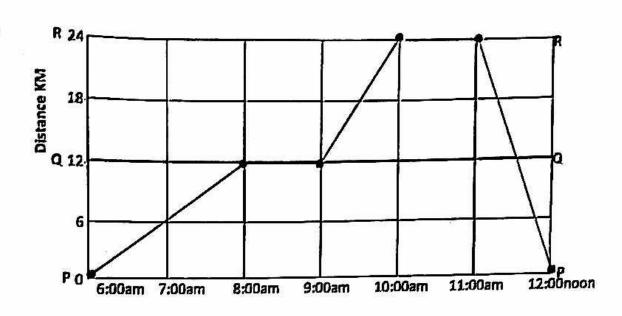
(Olmark)

(b) If the distance between Kampala and Jinja is 78km, find the taxi's average speed from Kampala and Jinja. (03marks)

30. The tank below is $\frac{2}{5}$ full of water. How many litres does it contain when it is half way full. $\left(\pi = \frac{22}{7}\right)$. (05marks)



31. The travel graph below shows a cyclist's journey from town P through town Q to town R.



(a) How far is Q from R?

(02marks)

(b) Calculate the average speed of the cyclist for the whole journey.

(03marks)

At what time did the cyclist rest for the first time?

(01mark)

32(a) Solve the inequality $x - 5 \le -2$

(02marks)

(b) Solve the equation; $\frac{1}{2}P + 3 = P - 1$

(03marks)

END