

THE E-LEARN EXAMINATIONS BOARD

P.7 BEGINNING OF TERM TWO

2024 MATHEMATICS

EMIS No.

Time Allowed: 2 hours 30 minutes

Personal No.

Pupil's Nan	ne:					
Pupil's Sig						
School Nai						
District Na	me:	 	 	 	 	

Read the following instructions carefully:

- Do not forget to write your school or district name on the paper.
- This paper has two sections: A and
 B. Section A has 20 questions and section Bhas 12 questions. The paper has 12 printed pages altogether.
- 3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- 6. Do not fill anything in the table indicated: "For Examiners' use only" and boxes inside the question paper

FOR EXAMINERS' 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 – 32				
TOTAL				

SECTION A: 40 MARKS

Answer **all** the questions in this section. Questions **1** to **20** carry two marks each.

1.	Workout: 36÷6
2.	Write in words: 1,995.
3.	Round off 34.567 to the nearest tenths.
4.	Four black books cost sh.24000. Find the cost of 8 similar black books
5.	Using ruler, a sharp pencil and a pair of compasses only, construct an angle of 60° at point A
	A
6.	Given that, $17_n = 15_{ten}$. Find the base represented by n.

7. Workout: (42÷6)-(30÷6) using distributive property

8. Given -4, 3,-1,0 and 2. Arrange the integers in ascending order.

- 9. Express 7.8 in standard form
- 10. Express 0.363636.....as a vulgar fraction in it's simplest form.

11. $\frac{5}{8}$ of water in the tank lasts a company for 45days. How long will $\frac{2}{3}$ of the water in the same tank last the company?

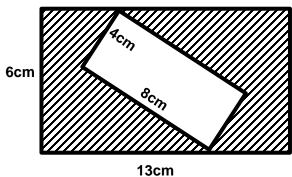
12. Find the Lowest common factor (LCF) of 3 and 5

Turn Over

- 13. Simplify; -3++8 using a number line
- 14. Set k has 32 subsets. Find n(k)

15. Find the smallest number of mangoes that can be divided among 6 girls or 8 boys and leaves 2 as a remainder.

16. Find the area of the shaded part.



17. The base area of a cylinder is 154cm². Calculate its volume if the height is 20cm.

18. Express 108 as the product of its prime factors.

19. Express 0.000765 in standard form

20. Solve :3a-6=a+4

SECTION B: 60 MARKS

Answer all questions in this section.

Marks for each question are indicated in brackets.

21. a) change $\frac{8}{33}$ into a recurring decimal

(02 marks)

b) Simplify: $2\frac{4}{5} \times \frac{2}{7} \div 1\frac{1}{9}$

(03 marks)

22.	Two bells at a certain school are rung at intervals of 40 minutes and 5 respectively for both lower and upper primary to change the lessons. I lessons will each section have had by the time the two bells ring toget			
		(04 marks)		
23.	A man deposited sh.40,000 for 5 years at a simple interest rate of $2\frac{1}{2}$	%		
	per year. (a) Calculate his simple interest.	(03 marks)		
		(ee mame)		
	(b) How much did he find on his account after 5years?	(02 marks)		

		Turn Over
	c) How many pupils like only one subject?	(01 mark)
	b) How many pupils like both subjects?	(02 marks)
224.	In a class of 45 pupils, 30 pupils like English (E) and 25 like N X pupils like both subjects. a) Draw a Venn diagram to show the above information.	flath(M). (02 marks)

25.	a) Using a pencil, ruler and pair of compasses only, construct a twhich BC = 6 cm, angle ABC = 90 ° and BCA = 30 °	riangle ABC
		(04 marks)
	b) Find the area of the triangle ABC	(01 mark)
26.	Mugisha went shopping and bought the following items. 3 packets of wheat flour at sh.7800 each 2000ml of cooking oil at sh.6500 per litre 1 ½ kg of sugar at sh.5000@kg Packet of baking powder at sh.1500. a) Find mugiaha's expenditure.	
	a) Find mugiana's expenditure.	(01 mark)
	b) Workout his change if he went shopping with a fifty thousand	Shilling note

27.	Kevina spent $\frac{1}{4}$ of her monthly income on food, $\frac{4}{5}$ of the reminder on the second secon	fees and	
	the rest on water. If she spent sh.70,000 more on fees than on food, a) Find the fraction she spent on water	(03 marks)	
	b) Find kevina's monthly salary	(02 marks)	
28.	a) Change 72km/hr to m/s	(02 marks)	
	b).Aman drove at 80km/hr for 2 ¼ hrs. He rested for 45minutes. After he covered 240km at 80km/hr. Calculate the average speed for the wh journey.		

29.	a)Solve then find the solution set of the inequality:2x-3<3	(03 marks)
	b) Workout: 3-5=(mod6) using dial method	(02 marks)
30.	a) Malik bought 5 books and 3 pens at sh.25000. If the cost of a lamore than a pen, find the amount Malik spent on each item.	oook is sh.200 <i>(03 marks)</i>
	b) Solve for k if a=12 and 6k-18=a	(02 marks)

b) Fii	nd the capacity of a triangular tank whose base area is 120cm ² and	d height 8cm (03 marks)	
32.	Ten children scored the following marks in mathematics test. 70 , 90 , 60 , 75 , 60 , 50 , 60 . a) Find the modal frequency.	85, 40, 60, (01 mark)	
	b) Find the median	(02 marks)	
	c) Find the mean mark	(03 marks)	