



THE E-LEARN EXAMINATIONS BOARD

WELCOME TO PRIMARY SEVEN

2024
MATHEMATICS

Time Allowed: 2 hours 15 minutes



Index No.

EMIS No.						Personal No.		

Pupil's Name:

Pupil's Signature:

School Name:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. The paper has **14** printed pages altogether.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown in the spaces provided.
4. **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 questions in this section

*Questions **1** to **20** carry two marks each*

1. **Add:** $98 + 12$
2. The cost of **6** exercise books is **Shs. 2400**. Find the cost of **5** similar exercise books.
3. Find the average of **2, 1, $y + 3$, $4y$** and **4**.
4. What number can be divided by either **6** or **8** leaving **1** as a remainder?
5. Write in numerals. **"Three hundred three thousand, three hundred"**.



6. In a bag, there are **6** blue balls and **7** white balls. What is the probability of picking a white ball?
7. Find the **G.C.D** of **8** and **12**.
8. Ashley shared **2727** cabbages among **9** visitors. How many cabbages did each visitor get?
9. Use a ruler and a pair of compasses only, construct an angle of **30°**.
10. Solve: **$2x^2 = 50$**



Turn Over

11. What is the next number in the series?

1, 4, 9, 16, _____

12. Given that set $B = \{a, b, c, d\}$
and set $C = \{0, 2, 4, 6\}$

Find $n(\mathbf{B \cup C})$

13. In a class of **40** pupils, 16 are boys, what percentage of the class are girls?

14. Express **40m/sec** as **km/hr**.

15. A right – angled trapezium has its opposite parallel sides **15cm** and **10cm** and a height of **8cm**. Find its area.



16. Change **433_{six}** to the day – today base.

17. Work out: $5 - 6 = \underline{\hspace{1cm}}$ (mode 8)

18. If **a = 2**, **b = 3** and **c = 5**, find the value of **3a + b + c**

19. Simplify: $\bar{8} - \bar{2}$

20. Increase **Sh. 10,000** in the ratio **2:5**.



SECTION B: 60 marks

Answer all questions in this section

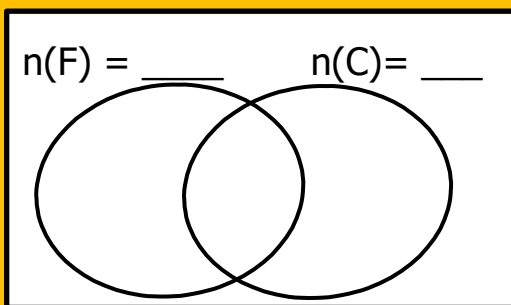
Marks for each question are indicated in the brackets

21. In a class of 50 pupils, 27 like Fanta (F), 25 like Coca-Cola (C), Y like both Fanta and Coca-Cola.

a) Represent the information on the Venn diagram below.

$n(\epsilon)$

(2mks)



b) Find the value of y.

(2mks)

c) Find the number of pupils who took only one type of soda. (1 mark)

a) How many pupils like only one subject? (1mk)

22. Nambirige scored the following marks in End of year examinations.
Maths 90, English 80, Science 80, S.ST 70, French 60

a) Find the following
i) Range (1mk)

ii) median (2mks)

iii) modal frequency (1mk)

iv) Average mark

(2mks)



23. Father bought the following items from the market.

- 4kg of sugar at Shs. 5500 per kg
- $2\frac{1}{2}$ kg of salt at Shs. 1200 per kg
- 2 bars of soap at Shs. 6000 per bar
- $\frac{1}{2}$ kg of ground nuts at shs. 5000 @kg

a) Calculate his total expenditure.

(4mks)

b) If he remained with a change of Shs. 10,500, how much had he at first? (1mk)

24.a) Work out: $\frac{3k}{5} = 3$

(2mks)

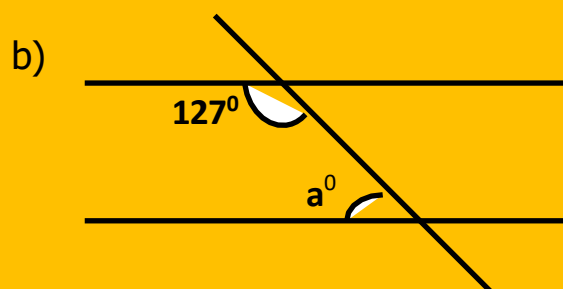
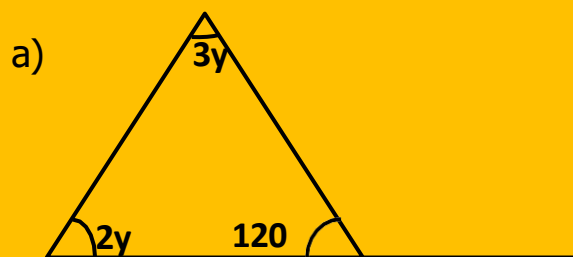
b) **Simplify:** $\frac{a^5 \times a^3}{a^4}$

(2mks)



25. Find the value of the unknown angles.

(3mks)



(2mks)

Turn Over

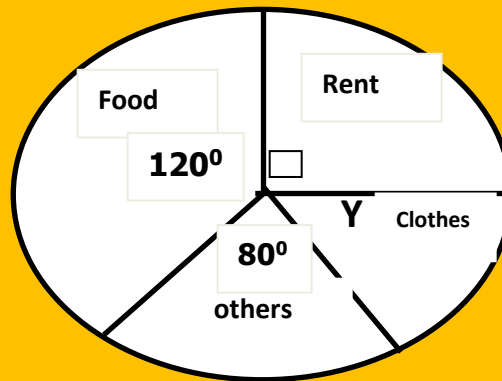
26. The probability that Jose picks a red colour is $\frac{1}{3}$
What is the probability that Jose picks another colour?

(2mks)

- a) Toss a dice once. What is the probability that an odd number shows up? (2mks)



27. Muganza spends his monthly salary of 720,000/= as shown on the pie chart below.



- a) Find the value of y in degrees. (2mks)
- b) How much does he spend on food? (2mks)
- c) What fraction does he spend on others in its lowest term? (1mk)

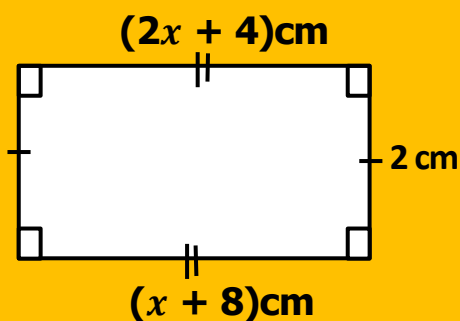
28. Two bells ring together at **40** minutes and **30** minutes respectively. If they ring at 8:00am, when will they ring together again? *(4mks)*

29. a) Calculate the simple interest on **Sh, 8000** for **2** years at 10% per annum. *(4mks)*

- b) Calculate the amount obtained thereafter. *(1mk)*



30. Study the figure below and answer the questions that follow.



- a) Find the;
i) the value of x *(2 marks)*

ii) The perimeter of the figure.

(2mks)

iii) The area of the figure.

(2mks)

31. A mother is **3** times as older as her daughter. Their total age is **48** years.
How old is each of them? (4mks)

32. The table below shows results of English Premier League football matches played by;

i) Man Utd ii) Arsenal iii)

Chelsea The points for Matches won = **3**,

The points for matches draw = **1**,

Zero is awarded for any matches lost.

	Number of matches		
Club	Won	Drawn	Lost
Man Utd	3	0	2
Arsenal	3	1	1
Chelsea	2	2	1

a) How many matches did Chelsea win?

(1mk)

Turn Over

b) How many points did each team get? (2mks)

c) Which team emerged the overall winners? (2mks)



END