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		

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 **30⁰**.

10.   Solve: $2x^2 = 50$

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(B ∪ 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. Aright – 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: $5 - 6 =$ ___(mode 8)

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

19. **Simplify: 8̄ – 2̄**

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

SECTION B: 60 marks
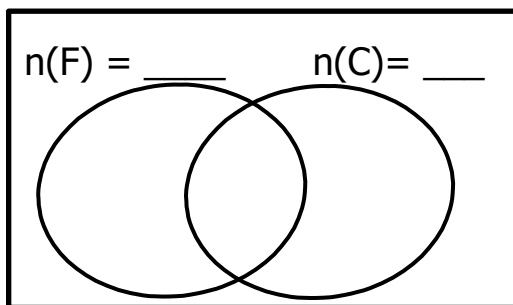
Answer all questions in this section

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.   *(2mks)*

n(∈)

n(F) = ____   n(C)= ___

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
-   2½ 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

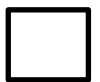a)   Calculate his total expenditure.   (4mks)

b) If he remained with a change of Shs. 10,500, how much had he at first? (1mk)
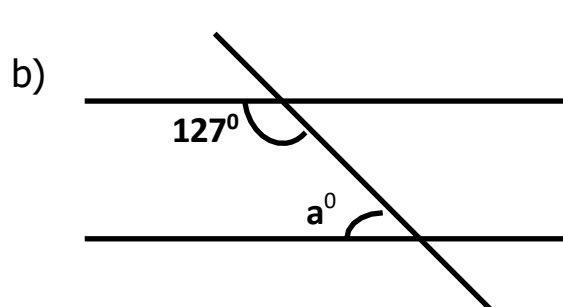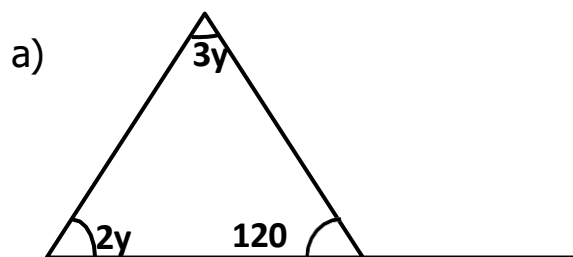
24.a) Work out: $\dfrac{3k}{5} = 3$ (2mks)

b) **Simplify:** $\dfrac{a^5 \times a^3}{a^4}$ *(2mks)*

25. Find the value of the un known angles.

(3mks)

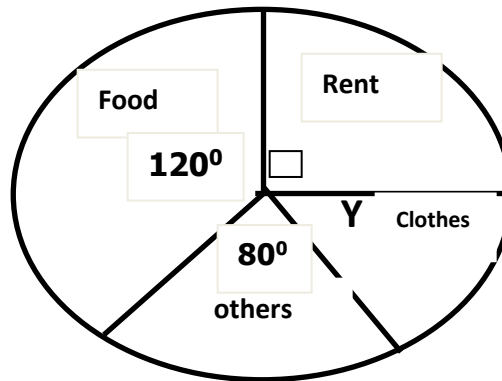a)

b)

(2mks)

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)*
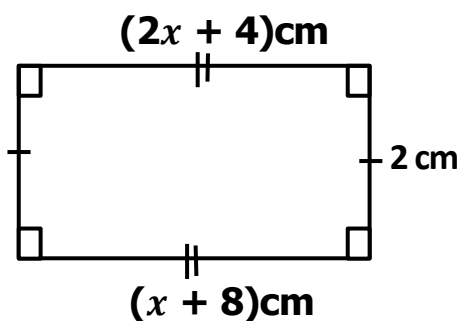
Turn Over

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.

(2x + 4)cm

2 cm

(x + 8)cm

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