GREENHILL PRIMARY SCHOOL BUWAATE
PRE-MIDTERM ASSESSMENT 2023

CLASS   :   P.7 (A)
SUBJECT   :   MATHEMATICS
TIME ALLOWED :   2 HOURS 30 MINUTES

Name _____ Stream _____

Campus _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully

1. **This paper has two Sections: A and B.**

2. **Section A has 20 answer questions (40 marks)**

3. **Section B has 12 questions (60 marks)**

For Examiner's use only	
A	
B	
TOTAL	

4. **Answer ALL questions. Answers to both sections must be written in the spaces provided.**

5. **All answers must be written using blue ink. Diagrams should be drawn in pencil.**

6. **Unnecessary alteration of work may lead to loss of marks.**

7. **Any handwriting that cannot be easily read may lead to loss of marks.**

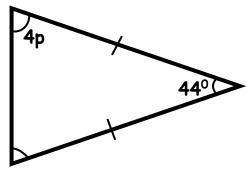8. **Do not fill anything in the box indicated for examiner's use only.**

SECTION A: (40 MARKS)

1.   Work out: $1 \times 1 \times 1$

2.   Write "Four hundred forty-two thousand sixty-one" in Hindu-Arabic numerals.
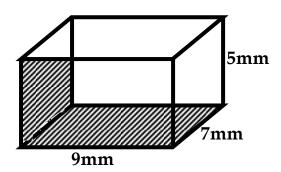
3.   Study the diagram below and find the size of **p** in degrees.

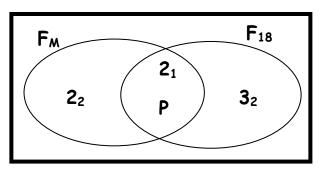4.   Find the difference of the value of 3 and place value of 2 in the number 783629.

5.   Given that $a = b = {}^-3$ and $d = {}^-2$. Find the value of; $d - (a + b)$
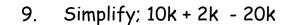
6. Work out the area of the shaded faces.

7. Kengo had $\frac{3}{4}$ of a cake and gave $\frac{1}{3}$ of it to Kato. Calculate the fraction that Kengo remained with.

8. The Venn-diagram below shows prime factors of M and 18. Use it to find the GCF of F_M and F_{18}.
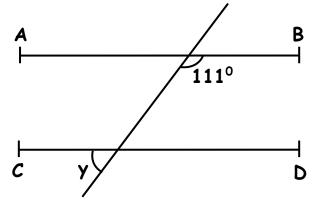
9. Simplify; 10k + 2k - 20k

10. There are 720 mangoes in a sack. If 120 mangoes were rotten and the rest were shared equally among 12 children. How many mangoes did each child get?

11. Given that **P** has 32 subsets. Find the number of members in set P.

12. Simplify; $^-8 + {}^+6$

13. Given that line **AB** is parallel to line **CD**. Calculate the size of **y** in degrees.

14. Change $\frac{4}{11}$ to a decimal fraction .

15. A trader packs groundnuts in small packs weighing 200g each. How many packs can he get from a bag weighing 20kg?

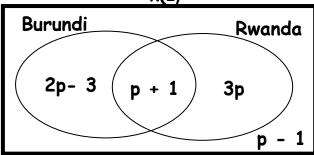16. Given that ⬭ represents 6 apples and each apple costs shs.1,200. Find the cost of buying apples represented by; 🍎🍎🍎 .

17. Simplify; $\frac{1}{2} - \frac{1}{4} \times \frac{2}{5}$

18. A primary seven pupil bought a fountain pen at sh.6800 and later sold it at a loss of shs.1250. Find the selling price of the pen.

19. With the help of a pencil, ruler and a pair of compasses, construct an angle of 120^0.

20. Work out;

Hours	Minutes
4	38
+ 2	30

SECTION B: (60 MARKS)

21. Study the Venn-diagram below and use it to answer the questions that follow.

n(Σ)

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Burundi                    Rwanda

   2p- 3    p + 1    3p

                            p - 1
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Given that 87 people visited only one town,

a) Find the value of p. (3 marks)
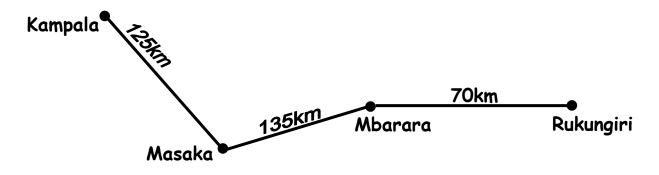
b) How many people did not visit Burundi? (2 marks)

22. In a school of 3600 students, $\frac{3}{5}$ are boys, $\frac{5}{12}$ of the girls are in lower classes and $\frac{5}{6}$ of the boys are in upper classes.

a) Find the actual number of boys. (1 mark)

b) Find the total number of students in lower classes. (4 marks)

23. Below is a clear route of Kalita bus. Use it to answer the questions that follow.
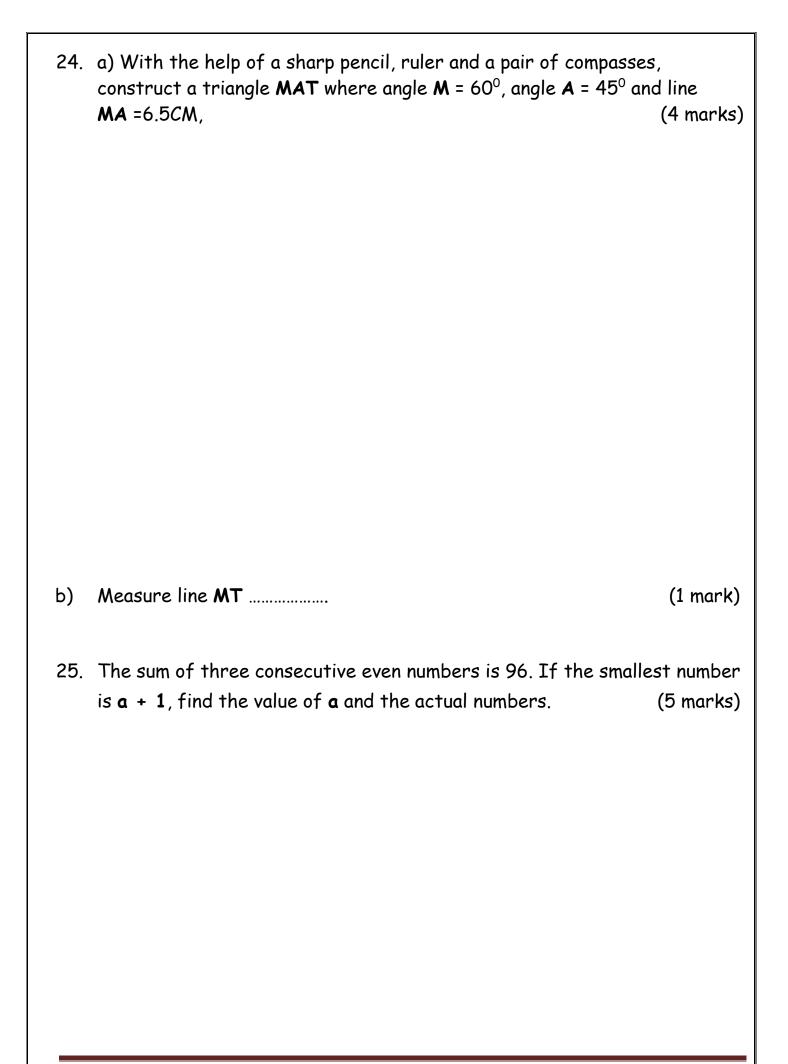

a) How far is Kampala from Mbarara? (1 mark)

b) Find the total distance between Masaka and Rukungiri. (1 mark)

c) If a bus left Kampala at 8:00a.m. travelling at an average speed of 120km per hour. At what time did it reach Rukungiri? (3 marks)

24. a) With the help of a sharp pencil, ruler and a pair of compasses, construct a triangle **MAT** where angle **M** = 60^0, angle **A** = 45^0 and line **MA** =6.5CM,   (4 marks)

b)   Measure line **MT** ………………   (1 mark)

25.   The sum of three consecutive even numbers is 96. If the smallest number is **a + 1**, find the value of **a** and the actual numbers.   (5 marks)
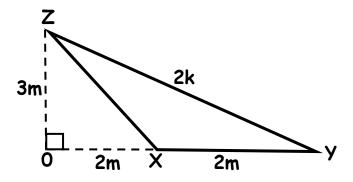
26. A radio uses batteries of 1.5 volts. In order for the radio to work, it requires 12 volts.

(a) How many such batteries will the radio require?   (2 marks)

(b) If a pair of batteries costs shs.1,500, how much money will be needed to buy the required number of batteries?   (3 marks)

27. Below is a triangle **XYZ**. Use it to answer the following questions.

 a) Find the value of k in metres.   (3 marks)

b)   Calculate the area of triangle **XYZ**   (2 marks)

28.   a) Reduce $\dfrac{18}{72}$ to its simplest form.   (1 mark)

b)   Arrange these fractions; $\dfrac{2}{3}$, $\dfrac{1}{4}$, $\dfrac{3}{8}$ and $\dfrac{5}{6}$ in ascending order.   (4 marks)

29.   Ricky went to the market with a fifty-thousand-shilling note and bought
       the following items;
       2kg of sugar at shs.8,000
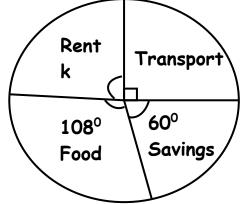   500g of salt at shs.1,000 a kg
       Ten mangoes at shs.1,500 for three mangoes
       Work out Ricky's change after paying for all the above items.   (5 marks)

30. Use the pie chart below about Kato's monthly expenditure to answer the questions that follow.
a) Express the sector of Rent as a percentage.   (3 marks)

Rent k

Transport

108⁰ Food

60⁰ Savings

b) If Kato saves shs.240,000 every month, how much more does he spend on rent than transport?   (3 marks)

31. Monicah is 2 years older than her brother Timothy. Their total age is 68 years.
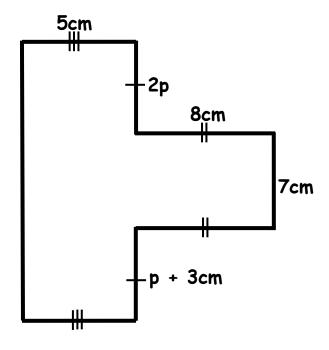a) How old is Timothy now?   (2 marks)

b) How old will Monicah be in three years' time?   (2 marks)

32. a) Study the joined shape below to answer the questions that follow.

b)   Work out the value of p.   (2 marks)

c)   Calculate the area of the joined shape.   (3 marks)

************** END ***************