THE SUPERIOR PRE - MOCK SET II EXAMINATION 2024

Primary Seven
Mathematics

TIME ALLOWED : 2 HOURS 30 MINUTES

PUPIL'S NAME:_____

DISTRICT: _____

EMIS NO:_____

INDEX No: ☐☐☐☐☐☐☐☐☐

READ CAREFULLY AND FOLLOW THE INSTRUCTIONS.

1. This paper is made up of **Two** sections **A** and **B**.

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

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

4. Attempt **ALL** questions. All answers to both

   Sections **A** and **B**

   MUST be written in the spaces provided.

5. All answers must be written in **blue** or **black** ball

   Point pen or ink. Only diagrams and graph work

   Must be done in pencil.

6. Unnecessary crossing of work will lead to loss of

   marks.

7. Any handwriting that cannot be easily read may

   Lead to loss of marks.

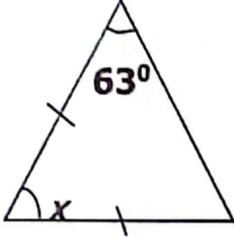8. Do not fill anything in table. It is for

   Examiner's use only
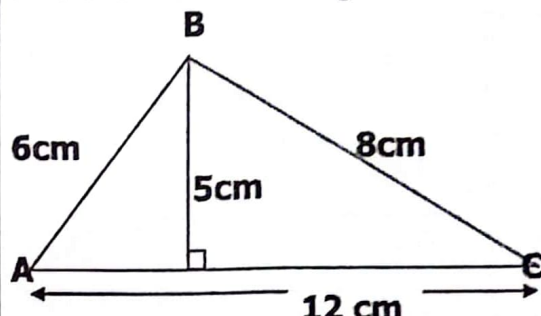
SECTION A

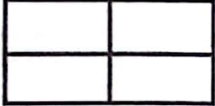|			
1.	Subtract: 2 1 4 - 41	3.	Find the next number infrequence 1,8,27,_____
2.	Express 13_{ten} to binary base	4.	Write the number whose standard form is 3.21×10^{-2}
5.	Find the value of x in the figure. 	6.	Work out: 4.4 + 25.64
7.	Shade **25%** of the figure 	8.	The mean of **6, 0, 7** and n is **4**. Find the value of n.
9.	Construct an angle of **105⁰**	10.	In a group of **25** pupils, the ratio of boys to girls is **2:3**. How many girls are in this group?

11.	Simplify: $2(6 - x) + x$	12.	Round off **64.701** to the nearest whole number
13.	Expand **1374** using powers of **10**	14.	Find the area for triangle **ABC**. B 6cm 8cm 5cm A C **12 cm**
15.	Express **69** in Roman numerals.	16.	If **x = 3** and **y = ⁻2**, find the value of **x² - y**.
17.	A car travelling at **45km/hr** took **2¹/₁₅ hrs** to complete the journey. How long was the journey?	18.	The probability that Janat will pass this year's **P.L.E** exam is **⁴/₅**. What is the probability that she will fail?

19.	Given that shs. **60,000** can buy **5** shirts, how much money is required to buy **3** similar shirts?	20.	Solve and find the solution set: $3x - 3 < 12$

SECTION B

21.   Study the table below and complete it.

Item	Quantity	Unit cost	Total
Meat		Shs. **4500**	Shs. **9000**
Rice	**2½** kg	Shs. **1800**	Shs.
Maize flour	**1¼** kg	Shs.	Shs. **1000**
Cooking oil		Shs. **1000**	Shs. **500**
Total			

(5marks)

22.	Simplify: $\dfrac{0.36 + 2.64}{0.3}$ *(3marks)*	b)	Given that **x =2** and y = **-3**, Find the value of $\dfrac{4x - 3y}{2xy}$ *(3marks)*

23. Given that $y = x - 2$, use the equation to complete the table below. *(4marks)*

x	-2		0	1
y		-3		

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

A

2x + 1cm   13cm

B   x + 4cm   C
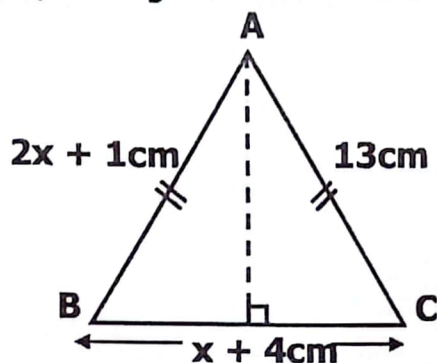
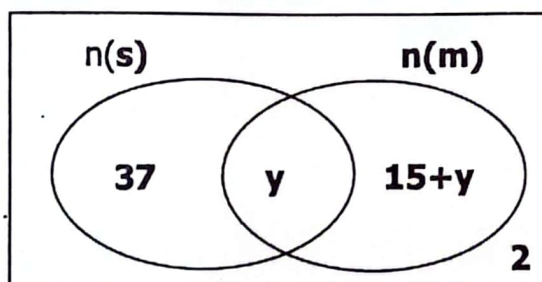a)   Find the value of **x**   *(2marks)*

b) Calculate the area of the figure. *(4marks)*

25. Two bells ring at intervals of **40min** for upper primary and **30min** for lower primary. If the bells were rung together at **8:30am**, when they ring together again it will be break time. When will it be break time?   *(4marks)*

26.	a) A farmer had **98** hectares of land. He sold $^5/_7$ of the land to his neighbour. How many hectares remained? *(2marks)*
	b) Of what was left, he gave some hectares to his son. How many hectares did he give to his son if he remained with only **13** hectares? *(2marks)*
27.	The venn diagram below shows pupils who like science and math at St Elizabeth Gayaza. If pupils who like science only are equal to those who like mathematics. a) Find the value of **y** *(3marks)* n(**s**) n(**m**) 37 y 15+y 2 b) What is the probability of choosing a pupil who likes math only to be the head prefect? *(3marks)*

28. Using a pair of compasses, a ruler and a pencil only, construct a triangle **ABC** where **AB = 6cm**, angle **BAC = 60⁰** and **AC = 5.5cm**. *(4marks)*

b) Measure i)   **BC**   *(1mark)*   ii)   ∠**C**   *(1mark)*

29. Peter rolled a bicycle with a wheel whose diameter is **35cm**. How many revolutions will it make to cover a distance of **44km**? *(4marks)*

30. Moses scored the following marks in a test: **23, 52, 15, 10, 31 and 42.**
a)Find the median mark. *(2marks)*

b) The average mass of **4** men is **90kg**. Three men weigh **85kg**, **90kg** and **87kg**. Find the mass of the fourth man. *(3marks)*

31.	Salongo's car uses **40litres** of fuel to cover a journey of **240km**. a) How much fuel does Salongo need to cover **72km**? (3marks)
	b) If one litre of fuel costs shs. **2650**, how much money does he spend on a journey of **138km**? (2marks)

32.	The pie-chart represents the number of library books in a school.
	              a) Find the value of **x** (3marks)
	
	ENG
	$(2x + 20)^0$ $(x - 10)^0$
	        SCI
	$(x + 10)^0$
	
	SST $(2x + 40)^0$
	       MTC
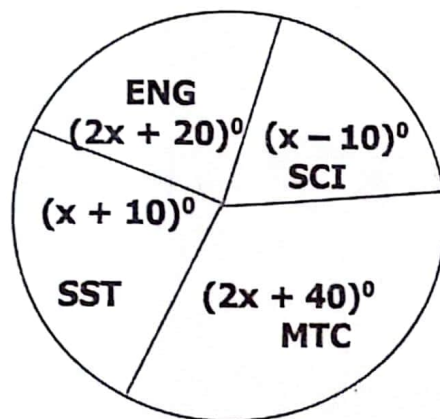	
	b) If there are **80** history books, how many books are for: (1mark each)
	i) **MTC**? ii) **ENG**?