THE SIPRO END OF TERM II EXAMINATIONS 2023

SUBJECT : **MATHEMATICS**

CLASS : **PRIMARY SIX**

DURATION : **2 hours 30 minutes**

Name :

School :

District :

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has 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 in both sections. 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 pens or **ink**. Only diagrams and graph work must be done in **pencil**.
6. Unnecessary **alteration** 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 the boxes indicated: "FOR EXAMINER'S USE ONLY"

Please turn over

Simplified Learning Today
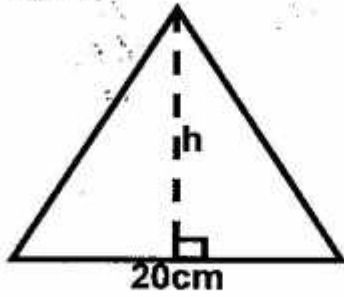
SECTION A: 40 MARKS
Questions *1* to *20* carry **two** marks each

1	**Work out:** $\dfrac{7}{9} - \dfrac{2}{9}$	**2**	Write **XXV** in words.
3	Find the **next** number in the sequence below. 4, 6, 8, 9, _____, _____	**4**	Solve for **X** in. X + 5 = 25
5	**Simplify:** ⁻5 - ⁺7	**6**	Teacher Aminah put 5 black pens and 4 red pens in a tin. What is the **probability** that a pen picked at random is red?
7	Tom sold a goat at **sh. 160,000** making a profit of **sh. 20,000**. How much had he bought the goat?	**8**	Akello was moving towards North and she turned **clockwise** to face Southeast. Through what **angle** did she turn?

9	**Convert** 5000ml into litres.	10	Given that set V = {p, e, n}. List all **subsets** of **set V**.
11	John bought **157** apples on Monday and **148** apples on Tuesday. How many **apples** did he buy altogether?	12	The average weight of **five** boys in a class is **31kg**. If their teacher joins them, their total weight becomes **225kg**. What is the weight of their **teacher**?
13	Kityo is **10 years** older than Katamba. If their total age is **50** years; How old is Kityo now?	14	Angel was given **10%** discount after buying a radio worth sh. 40,000. How much was the **discount**?
15	With the help of a ruler, a pencil and a pair of compasses only, **construct** an angle of **60⁰**.	16	The area of the triangle below is **120 sqcm**. If its base is **20cm**. Find its height.

 |

17	Use the venn diagram below to find n(P - Q).	18	Convert **36km/h** into m/s.
19	The LCM of two numbers is **120** and their GCF is 2. If the first number is **40**, find the **second** number.	20	**Work out:** 4 2_{five} $+\ 1$ 2_{five}

SECTION B: 60 MARKS

Marks for each part of the question are indicated in the brackets

21 a)	In a Primary Six of **120 pupils**, **30%** are boys and the rest are girls. Find the percentage of girls in the class.
	(01 mark)

b)	How many boys are in the class?	c)	How many **more** girls than boys are in the class?
	(02 marks)		*(01 mark)*

22a) With the help of a pencil, a ruler and a pair of compasses only, **construct** a square **ABCD** of sides **5cm**.

(04 marks)

b) Work out the **total** distance around the figure above.
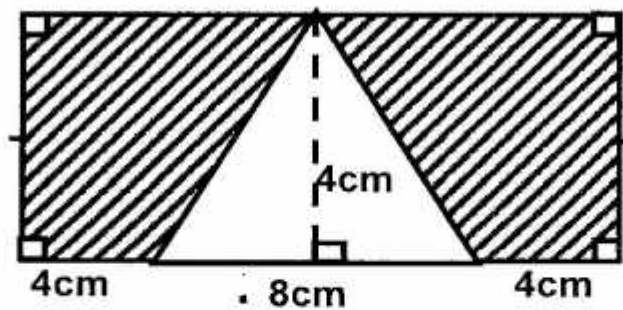
(01 mark)

23a) **Work out:** 5m + 3n - m + 2n

(02 marks)

b) The cost of a chair is **sh 30,000** more than the cost of a door. If both items cost sh.90,000. Find the cost of **each** item.

(03 marks)

24	Study the figure below carefully and use it to answer the questions that follow.

4cm   4cm   . 8cm   4cm

a) Calculate the area of the **inner** figure.

(02 marks)

b)	Work out the **area** of the rectangle.	c)	Calculate the area of the region.
	(02 marks)		*(01 mark)*

25	In Kiwafu Village of **150** farmers, **30** farmers planted maize **only** (M), 43 farmers planted rice (R) **only**, 10 farmers planted both crops while P farmers did not plant any of the two crops.
a)	Use the above information to complete the venn diagram below.

n(Σ) =150

n(M)   n(R)

10

P

(02 marks)

b)	How many **farmers** planted i) maize? ii) rice? *(01 mark)*	c)	Find the number of **farmers** who did not plant any of the two crops. *(02 marks)*

26	Mr. Kitamilike left his home at **7:30a.m** driving at a steady speed of 90m/h and arrived at school at **9:00a.m** the same day.

a)	For how **long** did he take to reach at school? *(02 marks)*	b)	Calculate the total distance covered by Mr. Kitamilike. *(02 marks)*

27a)	Expand **4,395** using powers of ten. *(02 marks)*

b)	Amron was given three cards: ⬛6⬛ ⬛4⬛ ⬛9⬛ Form the **smallest** and the **biggest** three digit numbers from the above cards. *(02 marks)*

28 The graph below shows how Maria travelled from Kampala to Luwero. *Study it carefully and use it to answer the questions that follow.*
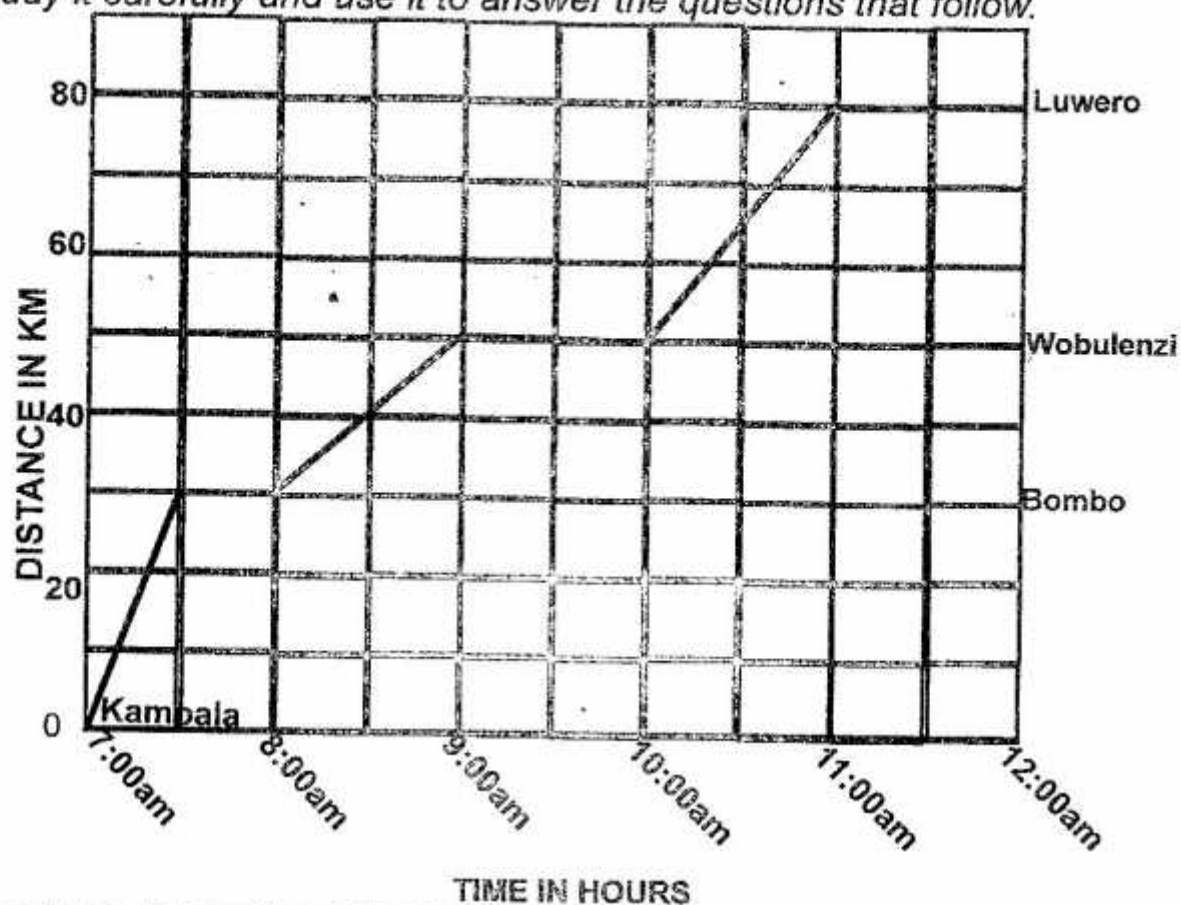
a)	At what **time** did she depart from Kampala?	b)	How **far** is Bombo from Kampala?
	(01 mark)		*(01 mark)*
c)	For how **long** did she take while resting at; i) Bombo? *(01 mark)* ii) Wobulenzi? *(01 mark)*	d)	At what time did he arrive at Luwero? *(01 mark)*
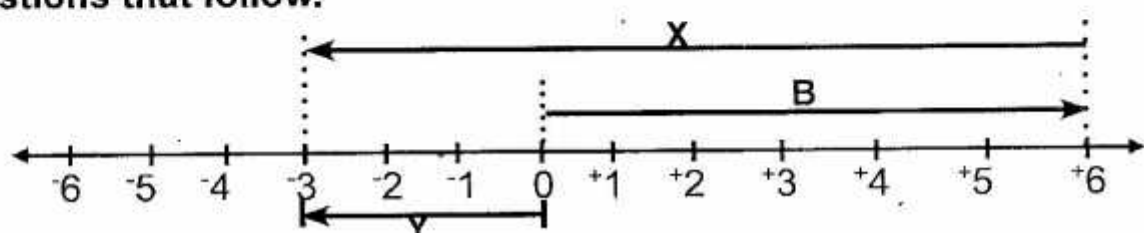
29	Study the exchange rate below carefully and use it to answer the questions that follow.

1 US dollar = Ug sh 3600

1 British Pound Sterling = Ug sh 4000

1K.sh   = Ug sh 30

a)	How much in Uganda shillings will one get if he has **200** US dollars?	b)	Nakiwala had 400,000 Kenya shillings, how much will she get in British Pound Sterling?
	(02 marks)		*(03 marks)*
30 a)	The sum of **three** consecutive **even** numbers is **66**. Find the numbers.	b)	Work out their **range**.
	(04 marks)		*(02 marks)*

31	A mother shared **sh 120,000** among her daughters, Shamim, Sharon and Shifah in a ratio of **2:3:5** respectively;
a)	How much did each of them get?

(i) Shamim   (ii) Sharon   (iii) Shifah ·

(03 marks)

b)	How much **more** money did Shifah get than Shamim?

(02 marks)

32 Study the number line below carefully and use it to answer the questions that follow.

a) Write down the **integers** represented by the following arrows:

i) B = _____

ii) X = _____

iii) Y = _____

(03marks)

b) Write the **mathematical** statement for the above number line.

(02marks)