THE SIPRO MID-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"
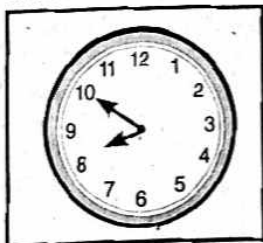
11	**Work out;**	12	Express **4.5** m to **centimeters**.
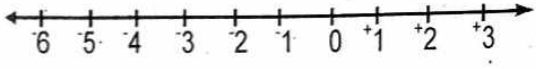
Work out;

```
  hours    min
    5        35
+   4        40
_____
```

| 13 | **Subtract;** $321_{five} - 24_{five}$. | 14 | Given that set K={smart,phone,TV}. **List** all the **subsets** of set K. |

| 15 | Peter scored the following points in a game; 5,-2,0,-7,6,3. **Arrange** the points he scored in **ascending** order. | 16 | Amuduka is **13 years** younger than Nakibuka. If the total of their age is **37**; find **Nakibuka's** age. |

| 17 | Express $\frac{3}{4}$ as a decimal number. | 18 | Find the next **two** numbers in the sequence below. 4, 6, 8, 9, 10, 12, _____, _____ |

| 19 | The clock face below shows the **morning time** the farmer takes his goats for grazing. **Tell** the time .. | 20 | Find the supplementary angle of 110^0. |

1	**Work out:** 23 × 3	2	Write **67** in Roman numerals.
3	Given that set W={1,3,6,10,15}; set K={1,2,3,4,5,6,7}. Find **n(W∩K)**.	4	Show -4 on the number line below. ⁻6 ⁻5 ⁻4 ⁻3 ⁻2 ⁻1 0 ⁺1 ⁺2 ⁺3
5	A book costs **sh 500** more than a pen. Find the cost of a pen, if their total cost is **sh 2500**.	6	Wahata counted children in class as ‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ ‖‖‖ ‖. How **many** children did he **count**?
7	**Work out;** $\dfrac{2}{3} - \dfrac{1}{5}$	8	Find the **value** of a; If $a^2 = 36$.
9	Wandera bought 4 phones at sh158,000. What is the cost of **each** phone at the same rate?	10	Using a pair of compasses, a ruler and a pencil, construct an angle of 90^0.

| 24	*Namuyomba went shopping and bought some **items** as follows.*
	2$\frac{1}{2}$kg of **sugar** at sh.4000 a kg.
	3 loaves of **bread** at **sh.15000**
	5 liters of **milk** at **sh.2000** a litre.
	5 teacups at **sh.5000** each cup.
a)	Calculate Namuyomba's **total** expenditure.
	(04 marks)
b)	If Namuyomba remained with **sh.40000** after buying all the items, how much money did she go with?
	(02 marks)
25a)	With the help of a ruler, a sharp pencil and a pair of compasses only, construct a **regular hexagon** in a circle of diameter **5cm**
	(03 marks)
b)	Find its **perimeter.**
	(02 marks)

SECTION B: 60 MARKS

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

21a) In the village meeting attended by **120** people, **70** people took Fanta(F), **55** people took Rwenzori(R) while **20** took some other brands of soda and **k** people took both. **Complete** the venn diagram using the above information.

$$n(\varepsilon)=120$$

$$n(F)=70 \qquad n(R)=55$$

k
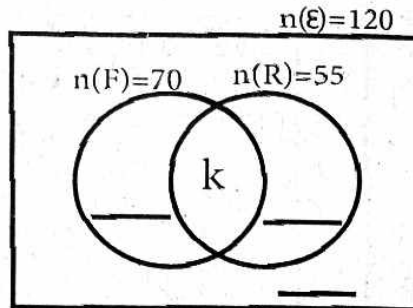
(03 marks)

b) Find the **value of k.**

(02 marks)

C) How many people took **only** one drink?

(01 mark)

22a) **Simplify;** ⁻3 - ⁻6

(02 marks)

b) From the top of the pit dug, a builder moved downwards **8 steps** and later moved **6 steps** upwards. What is his current step?

(03 marks)

23a) Round off **7.678** to the nearest **hundredths.**
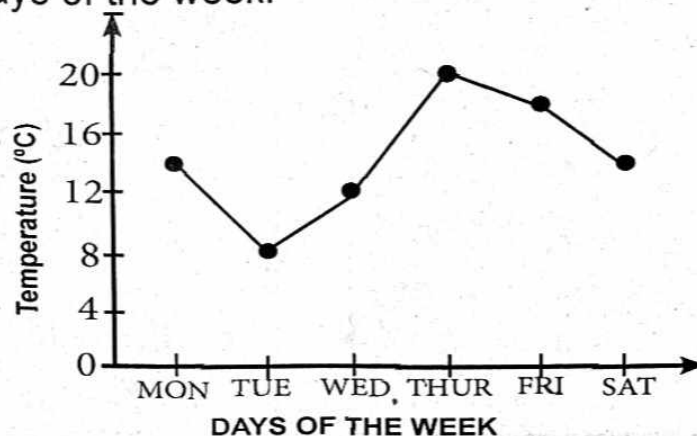
(02 marks)

b) **Work out;** $\dfrac{0.25 \times 0.6}{0.15}$

(03 marks)

29 The graph below shows the **average** temperature recorded in different days of the week.

DAYS OF THE WEEK

a) Which day of the week had the **highest** temperature recorded?

(01 mark)

b) What was the **lowest** temperature recorded?

(01 mark)
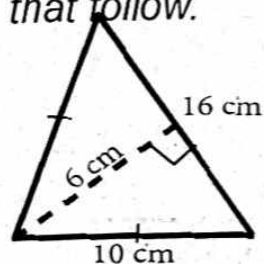
c) Which days had the **same** temperature recorded?

(01 mark)

d) Calculate the **average** temperature recorded.

(02 marks)

30 The figure below is an **isosceles** triangle. *Use it to answer the questions that follow.*

16 cm

6 cm

10 cm

26a) A man covered a distance of **120km** in **2 hours**. Calculate the speed at which he was moving. *(02 marks)*	b) Touzako left home at **8:30 am** travelling at speed of **80km/h** and reached town at **10:30 am.** What **distance** did he cover? *(03 marks)*
27a) **Simplify;** 2a +2a -a. *(02 marks)*	b) **Solve;** 3w-6 =18 *(02 marks)*
28 **Represent** two thousand five hundred seventy six on the **abacus** below. TH H T O *(02 marks)*	b) What is the **sum** of the value of 6 and the place value of 4 in **76524?** *(02 marks)*

a)	Calculate its **area**.	b)	If Jockus moved round the figure twice, what **distance** did he cover?
	(02 marks)		*(02 marks)*
31a)	**Work out;** 7 8 6 2 5 + 9 4 5 6 3 ─────────	b)	**Share** 135 oranges by 3 boys.
	(02 marks)		*(02 marks)*
32a)	When 3 unknown consecutive **even numbers** are added, their answer is 42. What are the numbers?	b)	Calculate the **product** of the first and the second numbers in "a" above.
	(04 marks)		*(02 marks)*