THE SIPRO MOCK EXAMINATIONS 2022

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 *Hours* 30 *Minutes*

Index No.	Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

School Random No. _____

District ID: _____

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"**

For Examiner's Use Only:		

PAGES	MARKS	INITIALS
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Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Total		

Please turn over

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SECTION A: 40 MARKS

Attempt all questions in this section

Questions **1** *to* **20** *carry* **two** *marks each.*

1. **Multiply:** 15 x 3

2. **Simplify:** 4a + 3a - 2a

3. Write **XCIX** in Hindu Arabic numerals.

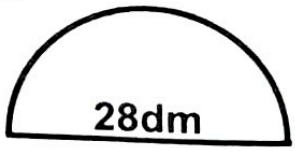
4. Write the percentage of the **shaded** part.

5. Find the square root of **64**.

6. **Work out:** $\frac{1}{2} + \frac{2}{5}$

7. **Simplify:** $^{+}5 - {}^{-}3$

8. Find the **perimeter** of the figure below.



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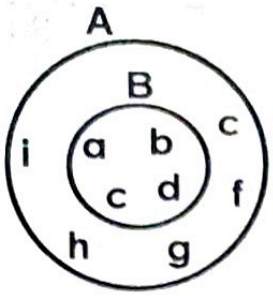
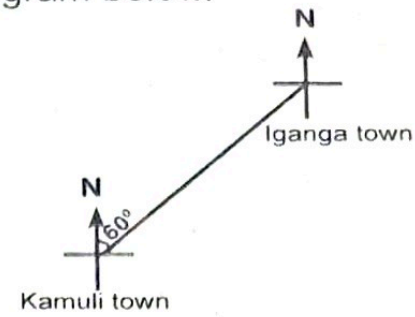
9.	What is the relationship of set **A** and **B?**  	10	Find the bearing of Kamuli town from Iganga town in the diagram below. 
11	Round off **74,953** to the nearest hundreds.	12	Arrange the following **integers** in descending order. $^{+}5,\ ^{-}6,\ ^{-}3,\ 0,\ ^{-}1,\ ^{+}3,\ ^{-}4$
13	A farmer spent **40** minutes planting groundnuts. If he ended planting at **10:25a.m,** at what time did he start?	14	In a music concert, tickets were issued from **0596** to **0695** of value **sh 5000** to each person who attended. How **much** money was collected from the attendees?

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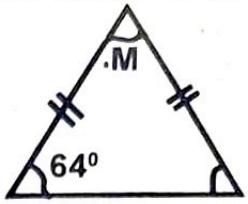
15	Given that three books are represented by 📖📖📖📖📖📖 ,find the total number of books represented by: 📖📖📖📖📖📖📖📖📖📖.	16	Find the value of **m** in degrees. 
17	If **a** = $^{-}$**2** and **b** = $^{-}$**1**, find the square of the value of $2a^2 - b^2$.	18	What evening **time** is shown on the clock face below?  _____ _____
19	The average of **x**, **x + 2** is **6**. Find the value of **x.**	20	Find the **sum** of the next two numbers in the sequence below. **5, 6, 10, 19, 35, 60, ____, ____**

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SECTION B: 60 MARKS

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

21 a) Use a dial to work out

3 + 6 = _____ (finite 7)

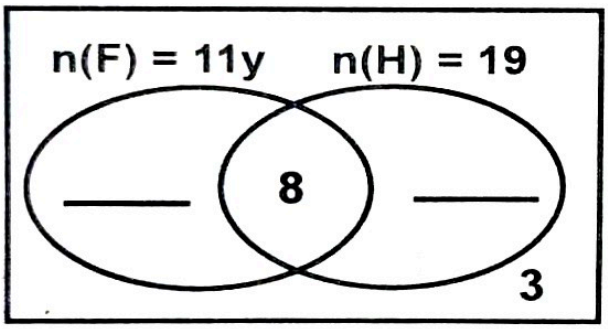
02 marks)

b) Today is Friday, what day of the week was it **20** days ago?

(02 marks)

2 Given that n(F) = 11y, n(H) = 19, n(F ∩ H) = 8, n(F-H) = 14 and n(F ∪ H)' = 3.

a) Complete the venn diagram below.



(02 marks)

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

(02 marks)

c) What is **n(F-H)'?**

(02 marks)

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23 a) Given that $\frac{4.8 \times m}{0.6 \times 0.8} = 1.2$, find the value of **m**.

(03 marks)

b) **Simplify:** $^1/_2 \times {}^3/_4 \div {}^2/_5$

(02 marks)

24 Using a ruler, a pencil and a pair of compasses only, construct a parallelogram **PQRS** such that line **PQ = 7cm**, line **QR = 5cm** and angle **PQR = 120°**.

(04 marks)

ii) Drop a perpendicular line from **S** to meet line **PQ** at **X**.

(01 mark)

b) Measure the line **SX** .

(01 mark)

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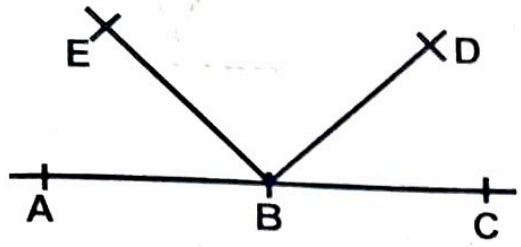
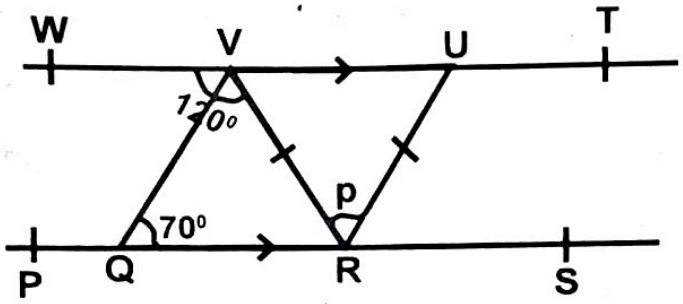
25 a) In the diagram below, **ABC** is a straight line. If angle **ABE**, angle **EBD** and angle **DBC** are in the ratio of **3:5:2** respectively, find the size of each angle in degrees.



(04marks)

b) Find the value of **p** in degrees in the diagram below if **WT** is parallel to **PS**, angle **WVR = 120⁰** and angle **VQR = 70⁰**.



(02 marks)

26 a) Change **13** to binary base.

(02 marks)

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

$42_n = 123_{five}$

(03 marks)

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27 Raudha went shopping with **a fifty** thousand shilling **note** and bought the following items;

- A 3 litre jerrycan of sanitizers at sh. 1500 a litre.
- 2 face masks at sh. 10,000 each.
- 6 packets of kick snacks at sh. 500 every packet.
- 2kg of sugar at sh. 7000.

a) Calculate Raudha's total **expenditure**.

(04 marks)

b) If she was given a discount of **sh. 500**, find her change.

(02 marks)

28 a) **Solve** the inequality: $2x - 2 < 8$

(02 marks)

b) Write the solution set for the above **inequality**.

(02 marks)

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29 a) Fifteen pupils are standing in a line such that Bashir is the **6th** from the left . Find Bashir's position from the right of the line.

(02 marks)

b) Twenty one poles were planted along a straight distance of **1140** metres. At what interval were the poles planted?

(02 marks)

30 **The table below shows the journey made by a bus from Mayuge to Busembatya.** *Use it to answer the questions that follow.*

Town	Distance	Departure time	Arrival time
Mayuge	0	09:00 Hrs	
Mbogo	60km	16:20 Hrs	15:45 Hrs
Bugabwe	100km	19:40 Hrs	19:10 Hrs
Busembatya	150 km		21:25 Hrs

a) Find the distance between Mbogo and Bugabwe.

(02 marks

b) How long does the bus stay at Mbogo?

(02 marks)

c) Express the arrival time at Bugabwe in **12** hour clock system.

(01 mark)

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31 **The table below shows the number of pupils who did the test.** *Use it to answer the questions that follow.*

Marks scored	80	75	90	85	60
No. of pupils	2	4	2	3	1

a) How many pupils did the **test**?

(01 mark)

b) Find the **range** of the marks scored.

(02 marks)

c) Work out the **average** of pupils who scored above 80.

(02 marks)

32 The diameter of a wheel of a bicycle is **35cm**. It makes **1000** revolutions from Kapic Primary School to Majengo Primary School. Find the distance in Kilometres between the schools.

(04 marks)

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