## THE SIPRO P.7 SPECIAL SET 2023

### **MATHEMATICS**

	Time /	Allowed: 2 Hours 30 Min
Inday No	Random No.	Personal No.
ndex No.	1 ,	

Candidate's Name: Candidate's Signature:

SES No.

District ID:

#### READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- This paper has two sections: A and B.
- Section A has 20 questions (40 Marks).
- Section B has 12 questions (60 Marks).
- 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;

Qn. No	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		

Please turn over



# THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

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#### SECTION A: 40 MARKS

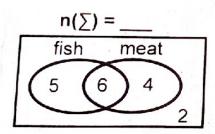
Attempt all questions in this section Questions 1 to 20 carry two marks each.

1. Use drawn tally symbols to find the number.

## 11

2. Round off 93759 to the nearest thousands.

- 3. Simplify: 4b-7b+5b
- 4. Use the venn diagram below to find the probability of picking a learner who eats fish.



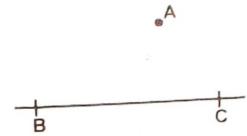
5. **Work out**: 1 - 2 of 3



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With the help of a pair of compasses, a pencil and a ruler only. construct a perpendicular line from point A to meet line segment BC below.



7. Express 1101<sub>two</sub> to base ten.

8. Mineral water bottles of 250 millilitres were used to fill a ten litre jerrycan with cooking oil. How many bottles of 250 millilitres were used?

9. If yesterday was Wednesday, find the day of the week it will be after 23 days from now.

10. **Solve** the inequality: 5 - 3k < 20.





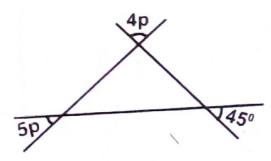
11. Write 10:30pm in 24 hour clock.

12. The prime factors of 18 and 30 are given below.

$$18 = 2 \times 3^2$$

Use the prime factors given above to find the Lowest Common Multiples of 18 and 30.

13. Find the value of P in the diagram below.



14. Calculate the number whose scientific notation became 8.49x10-2.

15. The subsets of **set W** are Ø , {a}, {b}, {c}, {a, b}, {a,c}, { b,c } and { a, b, c }. Find n(W).



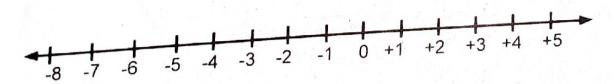
16. Simon built a rectangular house 48m long and 24m wide using poles fixed at intervals of 4 metres. Find the number of poles he used.

Below are the exchange rates at which the bank buys and sells the currency. Use it to answer the question that follows.

3700	selling rates Ug sh 3800
4,000	Ug sh 4100
	4,000

17. If a tourist had Ug sh 2,460,000, how many Pound Sterling will he get?

18. Work out: -5 - +2 on the number line below.





19.	A house can be built by 6 men in 20 days.	How many men are
	needed to build the same house in 12 days.	s at the same rate.

20.	A car left town A for town B at a speed of 72km/h. Ho	w long	did
	the car cover between the two towns if it took 45 minut	es?	



## SECTION B: 60 MARKS

Attempt all questions in this section.

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

21. Nakubulwa went to the market with sh. 20,000. She bought the items as shown in the table below;

Item 2kg of sugar	Unit cost	Total cost
	15h, 2400 per 500cm	sh.
750gm of rice	k Sh 2000 per litre	sh 5000
	sh per kg	sh 3600
Omplete the LL	al bill	sh

(a) Complete the blank spaces correctly.

(b) How much did she pay if she was given a discount of sh.1200? (04 marks)

(01 mark)



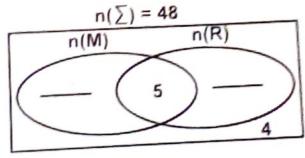
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(97 (CAPVE)

(b) Given that 22<sub>m</sub> ≈ 110<sub>mass</sub>, find the value of m.



- 23. In a class of 48 pupils, 2t pupils eat Matoke (M), 21 pupils eat rice (R), 5 pupils eat both kinds of food while 4 pupils eat neither of the two foods.
- (a) Use the above information to complete the venn diagram.



(02 marks)

(b) Find the number of pupils who eat only one type of food.

03 marks



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24(a) Express 0.63 to a common simplified fraction.	
(02 marks)	
(b) Given that tap A takes only 6 minutes to fill the tank while tap B takes y minutes to fill the same tank. How long will tap B only take to fill the same tank if both taps when opened together took 2 minutes?	
(03 marks)	
25(a) Maggie covered 80% of her journey by bus. Having been late, she covered the remaining 90km by taxi to catch up with time. How long was the journey?	
	-
(b) If the bus was moving at 90km/h, how long did it take Maggie to board off the bus?	
(02 marks)	





26. The table below shows the performance of a primary seven candidate class in Mock of 2023.

Marks scored	50	t	60
Number of pupils	3	4	2

(a) How many pupils sat for the examination?

(02 marks)

(b) If the average mark was 70, find the value of t.

and of the	1	
		- 1
		-

(03 marks)

- 27. At a primary school, there are three bells which ring at intervals of 30 minutes, 40 minutes and 1 hour for nursery, lower primary and upper primary respectively.
- (a) After how **long** will the three bells take to ring together at the same time?

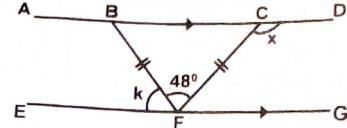
(03 marks)

(b) If they rang at 11:00a.m, when will they ring again?

(02 mi



28. Line AD is parallel to line EG and BCF is an isosceles triangle. Use it to answer the questions that follow.



(a) Find the size of angle k.

(b) Calculate the size of angle x.

(03 marks)



(02 marks)

- 29. Circular plates of diameter 14cm were cut from a rectangular sheet 84cm long and 35cm wide.
- (a) How many circular plates were cut?

(02 mark

(b) Work out the unused area after cutting the circular plates.

(03 marks)



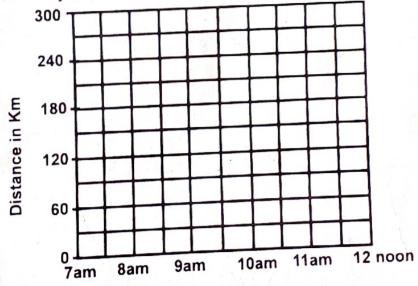
(02 marks)

(b) Johnson is 11 years older than Monica. In seven years time, Johnson will be twice the age of Monica. Find the age of Monica now.



(03 marks)

- 31. A taxi departed at 7:00a.m. from town B at a speed of 60km/h for 2 hours. It stayed at town C for 30 minutes then continued to town D a distance of 180km in 21/2 hours.
  - (a) Show the journey covered by the taxi on the grid below.



Time in hours

(03 marks)



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•					
				(03 mark	ks)
					7
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				(02 mar	ks)
				1-4	