THE SIPRO P.7 SPECIAL SET 2023

MATHEMATICS

			Time Allov	wed: 2 Hours 30 Minutes
Index No.		Random N	Personal No.	
Candidate's Nan	ne:			
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SES No.			M	6
District ID:		11		

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;

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



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SECTION A: 40 MARKS

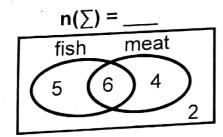
Attempt all questions in this section Questions 1 to 20 carry two marks each.

1. Use drawn tally symbols to find the number.



2. Round off 93759 to the nearest thousands.

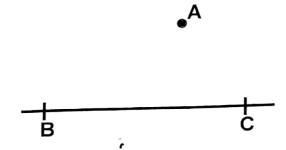
- 3. Simplify: 4b-7b+5b
- 4. Use the venn diagram below to find the **probability** of picking a learner who eats fish.



5. **Work out:** 1 - 2 of 3 / 2 5 4



6. 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_{two} 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.

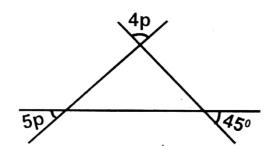
12. The prime factors of 18 and 30 are given below:

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

$$30 = 2 \times 3 \times 5$$

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).



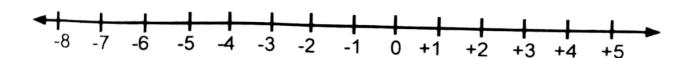
16. Simon built a rectangular house **48m** long and **24m** wide using poles fixed at intervals of **4 metres**. Find the number of poles he used.

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

currency	Buying rates	selling rates	
1 dollar	Ug sh 3700	Ug sh 3800	
1 pound sterling	Ug sh 4,000	Ug sh 4100	

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 at the same rate?

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

1

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	Unit cost	Total cost
2kg of sugar	Sh. 2400 per 500gm	sh.
	Sh 2000 per litre	sh 5000
750gm of rice	sh per kg	sh 3600
Total	bill	sh

(a) Complete the blank spaces correctly.

(04 marks)

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

(01 mark)







22 (a) Draw an abacus to show 231 five.

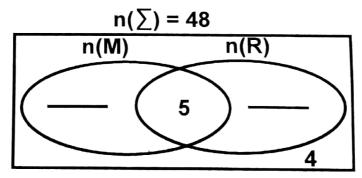
(02 marks)

(b) Given that $22_m = 110_{three}$, find the value of m.



(03marks)

- 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	$0.\overline{63}$	to	а	common	simplified	fraction.
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(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?

(03 marks)

(b) If the bus was moving at **90km/h**, how long did it take Maggie to board **off** the bus?

(02 m





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.



(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?

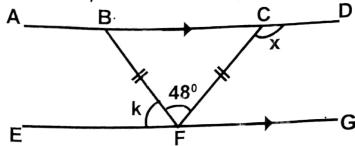
(02 marks)







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.



(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 marks)

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

(03 marks)





30(a) Solve the **equation**: 2(7y-4) = 3(2y+4)

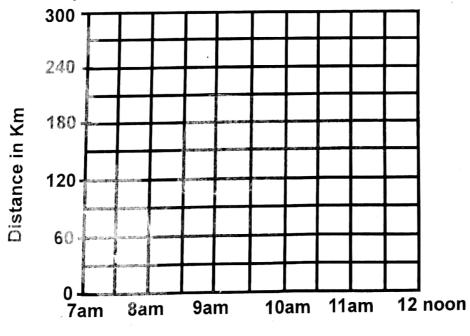
(02 marks)

(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 **2**¹/₂ hours.
 - (a) Show the journey covered by the taxi on the grid below.



Time in hours

(03 marks)



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P.7 MATHEMATICS SPECIAL SET EXAMINATION 2023

P.7 MATHEMATICS ACTUAL LEADNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES & PUPIL'S COMPANION



	×. •			
(b) Calculate the avera	age speed for th	ne whole jo	urney.	
		4		
	•			(02 marks)
32(a) Draw line AB =	7cm Use a rule	er a pencil :	and a pair of	(02 /// 2/// 5/
compasses only	to construct an	angle of 90) ⁰ at point A a	and then
construct angle a triangle ABC.	30 ⁰ at point B . L	et the two	ines meet at	C to form
a thangle ABC.				•
			. *	
			*	
a .				
	•			
	4			
			•	
			•	
			,	(03 marks)
(b) Measure;			•	(vo marks)
(i) line BC =	cm [´]			
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(::)		٠.		
(ii) angle ACB =				
				(02 marks)





