THE SIPRO MID-TERM II EXAMINATIONS -2024

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

	Random No.					Personal No.			
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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).
- Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- 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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Simplified Learning Today

SECTION A: 40 MARKS Attempt all questions in this section. Questions 1 to 20 carry two marks each. In the venn diagram below, shade Work out: 6 2. (P-Q) Q Change 2340 hours to 12 hour 3. Work out: 2 + 4. time clock system. Write 6379.5 in power **Simplify**: 6 + 9 6. expanded form. Use a ruler, a pencil and a pair Given that 2b = 8, a = -3 and 8. 7. c = 4. Find the value of of compasses only to construct a bc - a. perpendicular line from point B to meet line PQ at X.

9	Write CCIX in Hindu-Arabic numerals.		Work out the mean of 4p + 3,7,5, 2p and 15 + 4p. 129wo 5 b 1 1 1 1 1 1 1 1 1
11.	Mariam banked 20 consecutive notes of fifty thousand shillings. Find the first note if the last was numbered AY6746586.		Given that set M = {a, b, c}; List all the subsets of set M.
13	A trader has a bag of 25kg of rice. How many packets of 250gm does he need to pack the rice?	4 .	The interior angle sum of a regular polygon is 720°. Calculate the number of sides the polygon has.

15.	The ratio of 20 and X is 2:3 respectively of the two numbers. Find the Lowest Common Multiple of 20 and X if their G.C.F is 10.	16.	Work out the number whose standard form is 2.95 x 10 ⁻³
		The state of the s	
17.	A car covered 144km in 2 hours. Express the speed of the car in metres per second.	18.0	Shade 25% of the diagram.
19.	A trader sold two cocks at sh.120,000 which he bought at sh. 45,000 each. Work out the percentage profit he made.	4	The diagram below shows a triangle enclosed in a rectangle ABCD. Use it to find the length AD.



SECTION B: 60 MARKS

Attempt all questions in this section.

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

Use distributive property to work out: (23 x 18) + (18 x 27) (02 marks) 21.a)

Solve for y in $2^{y} \div 2^{3} = 32$. b)

(03 marks)

In a class of 48 pupils, a third of the pupils eat Matoke (M) only, 3x 22. pupils eat rice (R) only, 5 pupils eat both Matoke and rice while 3 pupils do not eat any of the two kinds of food.

Complete the venn diagram below using the above information. a)

(03 marks)

$$n(\mathcal{E}) = 48$$

$$n(M) \quad n(R)$$

$$5$$

b) Work out the number of pupils who eat rice.

(03 marks)



23.	Okumu spent 3 of her salary on ren	A 11 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and
a)	saved sn. 240,000	in a set is necessarily in the const	irks)
b)	Calculate her monthly salary.	(03 m	arks)
		Some ton your 2 12 at 2	
24. a)	Use the number line to work out: +6 -	-2. (03 m	arks)
1	₹	 	
	a section run, which concerns the sing the sin	tana di Janes (Mireta) dalah dan salah	
b)	If today is Friday, which day of the v	week was it 28 days ago?	
SEAU W		(02 ma	arks)
	- (1700)		
25.a)	Solve and write the solution b)	S mpl $\frac{2}{3}(6x + 12) - \frac{1}{4}(8x + 12)$	12)
	set for y if 2(y-7) 8. (03 marks)	02 ma	arks)
			, .
	\$	· ·	
4			

26.	I would will be a wantengular tank of 1100 dilu uoo it to	answer
	the question that form	The state of the s
	Number 4 3	de de de
- A	11 metres	16
Suimm. 13	9 metres	
e v	20 metres	
a)	Find the sum of all the edges.	(02 marks)
tet.	the may yet the sound above the size ognitude	10
b)	Calculate its total surface area.	(03 marks)
		Application of the state of the
	The process of the deal of the process of the proce	100
27 a)	Using a ruler, a pencil and a pair of compasses only, construct	a
	a rhombus ABCD, where line AB is 7cm, angle ABC is 120° ar	
	diagonal AC is 12cm.	(05 marks)
N .		
		1
12.54		
		1
2.4		
b)	Measure AD =cm.	(01 mark)



28.	The table 1	- Maria			-f nuni	Is who
20.	The table below shows resat a special examinatio	marks sco	ored and	number	tions th	at follow.
1 2 1 1	Marks scored	90 90	o answer 80	75 The ques	60	
4	Number of pupils	2	3	4	3	
a)	Find the modal mark.		Tem 8			(01 mark)
esince T	Sedem 09	,				
			atte erib	is to mus	sin no	THE WAS
b)	How many pupils scored a	bove the	average i	mark?		(03 marks)
5 9 W						
April 1					ching.	
			101 M			
20						
29.	The prime factors of 36 and $PF_{36} = 2^2 \times 3^2$ $PF_{54} = 2^1 \times 3^3$	d 54 are given				
whi mire!	Use the above prime factors	s to:				
a)			SCF) of 36	3 and 54	(0	(2 marks)
						Zillaiksj
b)	Work out the LCM of 36 and	151				
~,	VVOIK OUL THE LOW OF SO and	1 54.				(02 marks)
*		· ·				
A 7. 16				THAR	Weshir	Tra 1

The diagram ABD is a triangle, line ABC is a straight line, angle ADB is X + 15°, angle DBC is 108° and angle DAB is twice angle ADB. Study and use it to answer the questions that follow. 108° Work out the size of angle DAB. Find the value of x in degrees. b) (02 marks) (03 marks) The table below shows different denominations, number of notes 31. and amount. Study and use it to answer the questions that follow. Complete the blank spaces.

Denominations	Number of notes	Amount	
sh.5000	200 notes	sh	
sh. 10,000	notes	sh.1,000,000	
sh.	50 notes	sh.1,000,000	
sh.50,000	notes	sh	
TOTAL	sh. 8,000,000		

(05marks)



32.0A	Below is a 12 hour clock face. Study and use it to answer the questions
gang.	that follow. Select at BAC alphasions soon a 280 alones at 2



a) Tell the afternoon time shown on the clock face above in a 24 hour clock system. (02 marks)

a) [Fund the value of a tripogreps.

b) Work out the size of artife

b) If an activity that started at the time shown on the clock face above took 2 hours and 25 minutes, draw a clock to show the ending time of the activity.

(03 marks)

ใน ของโดย ที่ 2 แม้ ใช้เอาที่สัมพับเดิดเรียวให้สายที่เป็น ของโดย และ ที่ เล่นโดย ซึ่งได้ เล่นได้ เล่นได้ เล่นได้

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