

TAAND EXAMINATIONS BOARD END OF FIRST TERM EXAMINATION, 2024

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 hours 30 minutes

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Random Number					Personal Number				
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Ca	andidate's Signature Shool Name: Strict: ad the following instructions carefully: This paper is made up of two Sections: A and B. This paper is made up of two Sections: A and B. Qn. No. Marks Exrs' No.			
Car	ndidate's Signature		****************	•••••••
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Read the following instructions carefully:		FOR EXAMINER'S		
1.	This paper is made up of two Sections: A and R	US	E ONLY	
	To a service of the because. A and b.	Qn. No.	Marks	Exrs' No.
2.	Section A, has 20 short-answer questions (40 marks) and	1-5		

- Section A, has 20 short-answer questions (40 marks) and Section B has 12 questions (60 marks)
- All the working for both sections A and B must be shown in the spaces provided.
- All working must be done using a blue or black ball-point pen or fountain pen. Only diagrams should be done in pencil.
- 5. No calculators are allowed in the examination room.
- Unnecessary alteration of work may lead to loss of marks.
- Any handwriting that cannot easily be read may lead to loss of marks.
- 8. Do not fill anything in the boxes indicated "For examiners' use only"

FOR EXAMINER'S						
US						
Qn. No.	Marks	Exrs' No.				
1-5						
6 - 10						
11 - 15						
16 - 20						
21 - 22						
23 - 24						
25 - 26						
27 - 28						
29 - 30						
31 - 32						
TOTAL						

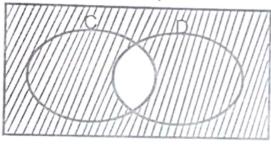
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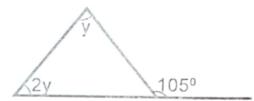
Answer all questions in section A. Each question carries 2 marks.

- Work out 3p + 2p + 4p.
- Work out the product of the third and the sixth prime number.
- Calculate the LCM of 9 and 12.
- 7. Find the value of; 4 + 5 = ____ (finite 7).

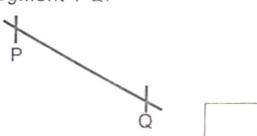
Write the shaded part.



8. What is the value of y on the figure.



- The cost of 6 shirts is sh.42,000.
 Find the cost of 2 similar shirts.
- 9. Express 249 into Roman numerals.
- Use a pair of compasses and a ruler only to bisect the line segment PQ.



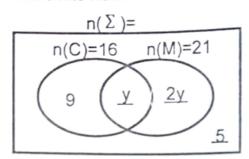
10. Solve -2p + 7 = 17.

11.	A porest I	
	A parent deposited a bankslip of sh.2,369,450 for school fees. Write the amount in words.	16. A cyclist travels at 48km/hr. What distance does he cove in 40 minutes?
12.	Find the sum of $\frac{1}{5}$ and $\frac{3}{4}$.	17. Convert 1011 _{two} to base ten.
13.	Simplify: $\frac{M^2 \times M^5}{M^4}$	18. Divide: 12 4860 .
14.	A trader bought a hen at sh.8,000. He later sold it at sh.10,000. Calculate his percentage profit.	19. In a factory, 3 people can repair a house in 8 days. How long will 2 people take to repair the same house?
15.	Calculate the circumference of the shape below. 7 metres.	20. Calculate the square root of $2\frac{1}{4}$.
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11.

SECTION B: (60 Marks)

Marks for each question are indicated in the brackets. In a class, 16 pupils like cakes (C), 21 like mandazi (M), some like 21. both and 5 like neither.



12.

Study the venn diagram above and use it to find the value of y. (3mar); (a)

(b) 'How many pupils are in the class?

(2marks

13.

22.(a) Find the place value of 7 in 87695.

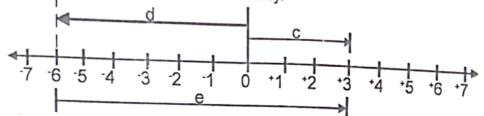
(2marks

14.

Calculate the difference of the value of 7 and the value of 8 in 27485. (3marks) (b)

15.

Study the number line below carefully. 23.



Write the integers represented above. (a)

(3marks)

- (i)
- (ii) d =
- e = (iii)
- State the mathematical sentence represented. (b)

(2marks)

- 24. Nathan, Hassan and Jane shared some money in the ratio 3:2:4. Hassan got sh.10,000
 - Find the total amount they shared. (a)

(3marks)

How much money did Jane get? (b)

(2marks)

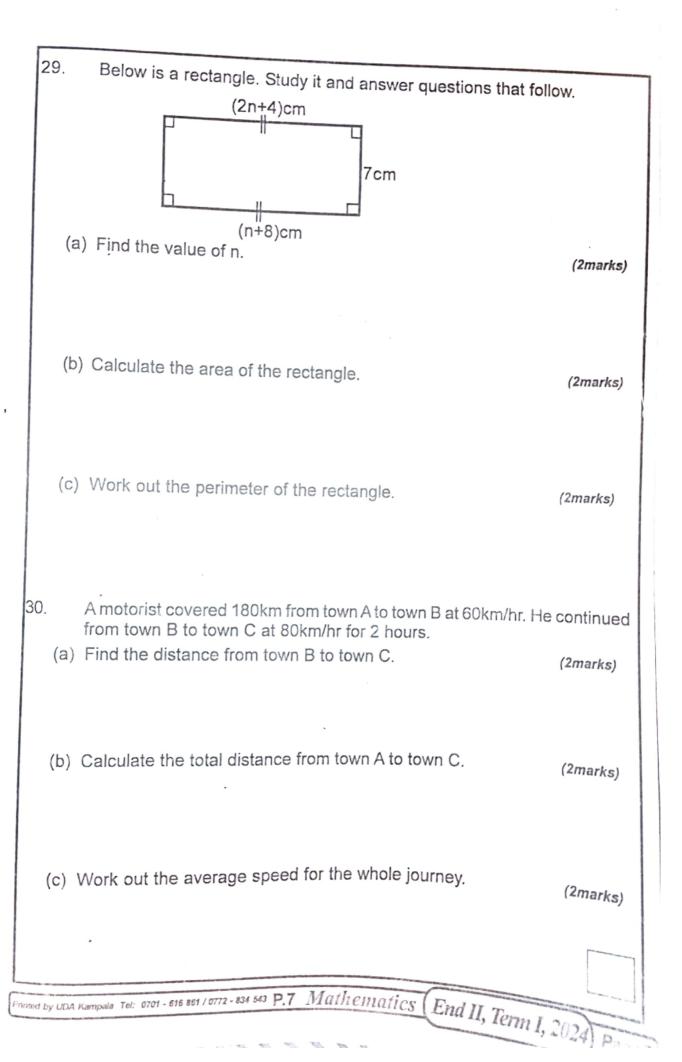
With the use of a pair of compasses, a ruler and a sharp pencil, construct triangle CDE such that CD=10cm, DE=8cm and CE=6cm. 25.(a) (4marks)

Measure angle CED. (b)

(1mark)

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	A girl has a note of sh.20,000 and went to buy the following; 2kg of beans at sh.3000 per kg. 1½ litres of milk at sh.2200 per litre. 3kg of rice at sh.3000 per kg.	
(a)	Find her total expenditure.	(4marks)
(b)	Calculate her change.	(2marks)
27.(a) (a)	Find the value of the angles represented by x . (2marks) (b) $4x$ $x+30^{\circ}$	(∠marks)
28. (a)	In a school, two bells are used at intervals of 30 minutes and respectively. How long do they take to ring together again?	40 minutes (2marks)
(b)	At what time do they ring together again if they first rung at 8:30ar	n? (2marks)



31. The table shows Panda's marks.

,						
	Subject	Science	SST	Math	Eng	R.E
	Mark	70	60	80	90	80

(a) Find the range.

(2marks)

(b) Find his median mark.

(1mark)

(c) Calculate his mean mark.

(2marks)

On a farm, there are 6 sheep, 8 cows and 10 goats. Use the information 32. to construct a pie-chart of radius 3cm. (4marks)

END*

N	SOLUTIONS	and the supplemental of th	TO HUMANNING OF	Parent Parent	SOLUTIONS	elem surpolectable v ^{ict}
2	SECTION A: (40 MARKS)	QN	SOLUTIONS	QN	The state of the s	
1.	3p + 2p + 4n	10		19.	3people → 8days 1 person → 3 x 8days	
	=7p.		-2p + 7 - 7 = 17 - 7 M,		2 people - 3 x 8 days	M.
2.	M ₉ = {9, 18, 27, 39, 45}		2p = 10 5		2,	
4. 8	$ V _{12} = \{12, 24(36, 48,)\}$	1	P = -5 A ₁		= 12 days	Α,
	LCM = 36.	1 11	M TH UNITS	20.	$\sqrt{2\frac{1}{4}}$	
	OR 2 9 12	-	2 369 450			
	2 9 6		Two millions, three hundred sixty ²		$=\sqrt{\frac{9}{4}}=\sqrt{\frac{9}{4}}=\frac{3}{2}$	М,
	2 9 12 2 9 6 3 9 3 3 3 1	10	nine thousands, four hundred fifty.		= 11/2	Α,
	1111	12	$\frac{1}{5} + \frac{3}{4} = \frac{4+15}{20}$ M,		SECTION B:(60 MARKS)	
	$LCM = 2 \times 2 \times 3 \times 3$		$=\frac{19}{20}$ A,	21.	(a) $y + 2y = 21$	м,
	LCM = 36.	13			$\frac{3y}{8} = \frac{21}{3}$	M.
3.	$(C \cup D)_i$		m ⁴		y = 7.	Α,
	OR Complement of O.O.B.		PAXTOXTOXTOXTOXMXMXM TAXTOXTOXTOX		(b) $9 + (y) + (2y) + 5$	
	Complement of C \(\O\D\).	1	$= m^3 \qquad A_1$		9 + 7 + (2x7) + 5	м,
14	311.42000		OR		9 + 7 + 14 + 5 = 35 pupils.	Α.
	1 shirt sh.42000		$(m^2 \times m^5) \div m^4)$	22	(a) TTH TH H T O	
	= sh.7000 B,		(2+5)-4 M		8 7 6 9 5	
	2 shirts → 2 x sh.7000		$m^{7.4} = m^3$		──Thousands	В
	= sh.14,000 B	1.			(b) TTH TH H T O	
5			sh.10,000 - sh.8000	1	2 7 4 8 5	
-	P	1	$= sh.2000$ $P = P \times 100\%$			
			BP X 10078		7000	В,
-	-/ · Q		2000 × 100%		- 80	B,
	6. Prime no {2, 3,6, 7, 11,13, 17,	}	$\frac{8000}{4} = 25\%$ B ₁	23.	6920 (a)(i) c = +3	B,
	3rd6th	B, 1	$C = \frac{1}{2} \pi D$	20.	(ii) d = -6	В
	Product 5 x 13 = 65	В,	$C = \frac{1}{2} \times \frac{27}{7} \times 7m$		(iii) e = +9	В,
	7. 4 + 5 = (finite7)		C = 11m. A,		(b) $c - d = e$ +36 = +9	В,
		м, 1	6. D = S x T	2/	(-)	
	:. 4 + 5 = 2 (finite7)	Α,	$D = 48 \text{km/hr} \times \frac{40}{40} \text{hr}$	24	Trathall Hassall Saile To	otal
	8. $y + 2y = 105^\circ$		D = 48 km/hr x 2 hr		Let the total be c.	9
100	$\frac{3y}{2} = \frac{105^{\circ}}{2}$	1	D = 32 km		$\frac{2 \times c}{2} = \text{sh.10,000}$	М,
	$y = 35^{\circ}$		17. 1 0 1 1 _{bwg}		9 sn. 10,000	
	OR:				$\frac{9}{\cancel{2}} \times \cancel{2} = \text{sh.} \cancel{10},000 \times \frac{9}{2}$	М,
	OK.		(2,2)		c = sh.45,000	Α,
	2y 105°		(2.2.2)		OR 2parts represent dh. 1000	
			(1x2x2x2)+(0x2x2)+(1x2)+(1x1) _M	1	1part represents sh. 10,00	00
	$-180^{\circ} - 105^{\circ} = 75^{\circ}$ $2y + y + 75 = 180^{\circ}$		8 + 0 + + 1 = 11.		= sh.500	10
	$3y + 75 - 75 = 180^{\circ} - 75^{\circ}$		18. 0405		9 parts represents 9 x sh.50	
	$\frac{3y}{3} = \frac{105^{\circ}}{3}$		12 4860 0×12 = 0↓		= sh.45,0	
F 1	y = 35°		_48 M,		(b) 4x sh.45000	М,
1 14	9. 249 200 + 40 + 9		$4x12 = 48 \ 006$		= sh.20,000	Α,
	CC + XL + IX		0x12 = 0\vec{V}		OR 9 parts represent sh.4500 1part represents sh.45000 = st	10
4.19	= CCXLIX	2	5x12 = 60		4parts represents 4 x sh.50	
			00 = 405. A ₄		= sh.20,0	
				es.		

