

TAAND EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATION, 2024

MATHEMATICS

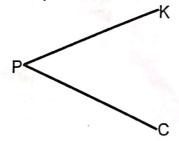
Time Allowed: 2 hours 30 minutes

		Rand	om Nu	nber	1		Perso	Personal Number				
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+					14		11111	3	16			
Car	ididate's N	ame:										
Car	ndidate's S	ignature										
Scr	iool Name	·	••••••	••••••								
DC	NOT C	PEN	THIS	BOOL	CLET	UNTIL Y	OU ARE					
Re	ad the follow	ving inst	ructions	carefull	y:			FOREX	AMINE E ONLY			
1.	This pape	rismade	upoftw	o Section	ns: A and	В.		Qn. No.		Exrs' No.		
								1 - 5				
2.			narks) and		6 - 10							
•								11 - 15	1 4			
3.	Section B has 12 questions (60 marks)				16 - 20							
	the spaces provided. All working must be done using a blue or black ball - point pen							21 - 22				
4.	All the working for both sections A and B must be shown in the spaces provided.		cil.	23 - 24								
_								25 - 26				
5.								27 - 28		-		
6.	Unnecessa	ry altera	tion of w	ork may l	ead to los	s of marks.		29 - 30		-		
7.	Anyhandy	viting that	tcannote	silyberc	dmaylea	dtolossofma	ks.	31 - 32				
								TOTAL				
8.	Donotfilla	nythingi	nthe box	es indicati	30 Trores	CHIMICIS USC	OLLY					

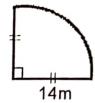
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Turn Over

- Work out: 43 x 2.
- 6. Find the next number; 36, 28, 21, 15, 10,
- 2. Find the sum of -9 and +6.
- 7. Find the range of: -3, 4, 0, -6, 1
- Express "Seventy two thousand, 3. seven hundred two" in figures.
- 8. Bisect angle KPC using a pair of compasses and a ruler only.

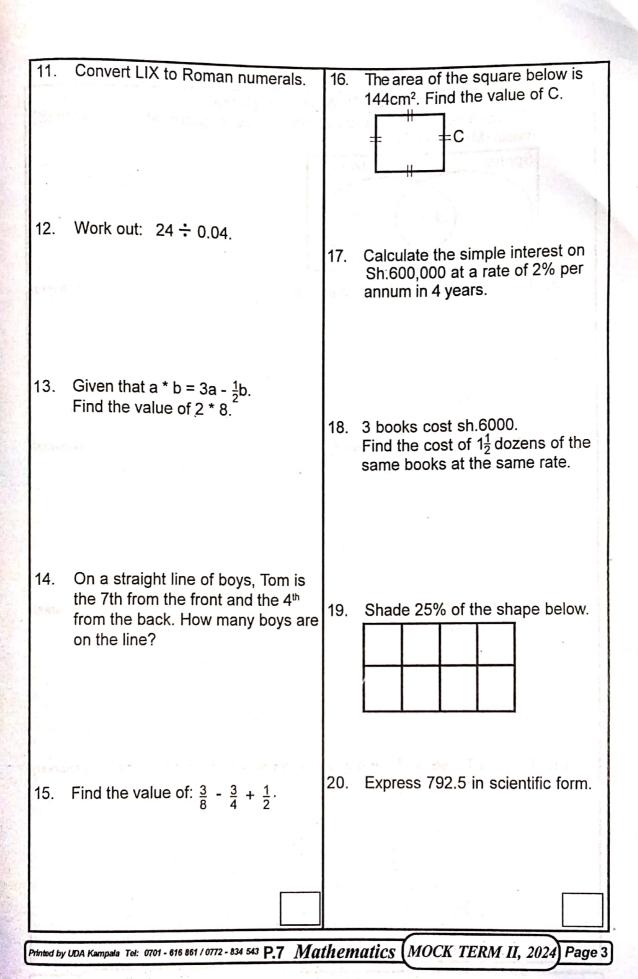


- Solve for w: 2(w-4)+6=10.
- Simplify using the distributive property $15 \div 4 - 7 \div 4$
- 5. Below is a shape of a school dining hall. Calculate the perimeter of the hall.



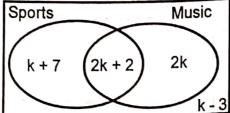
10. A meeting ended at 4:00pm. At what time did it start if it took $2\frac{1}{2}$ hours?

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SECTION B: (60 Marks)

21. The venn diagram below shows the number of pupils who like sports (S) music (M) and neither.



(a) Find the value of k if 36 like sports.

(3marks)

(b) How many pupils like Music?

(2marks)

(2marks)

(b) Today is Tuesday. What day of the week was it 69 days ago?

3marks

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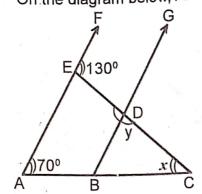
	A Kampala Tel: 0701 - 616 861 / 0772 - 834 543 P.7 Mathematics MOCK TERM II, 2024 Page 5
(b)	If he has 9 sheep, find the total number of animals on the farm. (2marks)
	and the farm (2marks)
(a)	remaining animals are sheep and the rest are cattle. Find the fraction of the cattle. (3marks)
25.	Kaguta has a farm of animals. $\frac{1}{3}$ of the animals are goats, $\frac{1}{8}$ of the
(b)	Calculate the median sale. (2marks) (c) Workout the mean sale. (2marks)
(a)	and 28. Find his range. (1mark)
4.	In 6 days, a farmer sold the following sugarcanes; 18, 30, 15, 40, 13
(b)	Given the numeral 74,928, divide the value of 4 by the value of 2. (2marks)
	Civen the numeral 74 000 at the m
3. (a)	Given the digits 4, 9, 2 and 6. Write the smallest 4-digit number in words.

26. (a) With the help of a pair of compasses, a ruler and a shar construct triangle CDE such that CD = 8cm, CDE = 45°	and ECD - 00.
Drop a perpendicular line from E to meet line segment (CD at F. (4marks)
	(d mark)
(b) Measure EF.	(1mark)
et en	
 On the figure below, CDE is an isosceles triangle and Al rectangle. 	BCD is a
(a) Find the length EF.	(3marks)
D F C 7cm	ar 262 (d).
A 8cm B	
es dits — dimmigram allements — i justice addition in the en-	
grand and could be	an only (6)
(b) Calculate the perimeter of ABCED.	(2marks)
Proposed that is, require services to a light to the first and a problem to a co	er en i (d)
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28. (a) Solve:	4r - 6 = 2 (r	+4).		,	(2marks)
						(Zillaliko)
		,		,	-	
(b)	Fred is 1	2 years old	now His sist			
	In how m	any years w	now. His sister ill Mary becom	Mary is 27	years old.	(3marks)
			,	ic twice as (olu as rieu!	(Siliai KS)
				Ŷ		
			. *#			
			Ψ,			Maria de
	Throc oil	lings Vast	ъ.			
29.	respectiv	reiy. Alsha r	ias 63 acres m	ore than Ya	me land in the sin.	
(a)	Find the f	raction of B	adru's land. (b) Calculat	te the total acre	es of land
			(1mark)	for all th	e siblings.	(4marks)
Sine,					in a la	
	- 200					
		•	6 Ta -			
			,			
						-
30. (a)	Multiply:	729 x 63.				(3marks)
	7 = 7 - 1 = 7					-
						49
						,
						The Section 1
(b)	A trader bo	ought 16,544 sacks did l	4kg of rice. He he get?	packed the	m in sacks of	17kg each. (2marks)
					A Car	
					and the second	

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On the diagram below, AF is parallel to BG. CAF = 70° and FED = 130°.



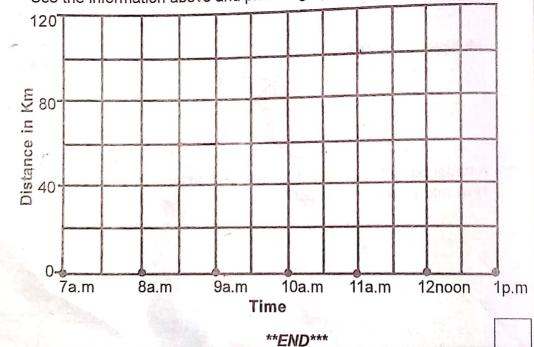
31.

(a) Find the value of x.

(3marks)

(b) Calculate the size of angle y.

A cyclist travelled at 7:00am from his village at an average speed of 32. 40km/hr for $1\frac{1}{2}$ hours to a market where he rested for 30 minutes. From the market, he rode for 1 hour to a town 40km away. He rested for 1hour and returned from town to his village at 50km/hr in 2 hours. Use the information above and plot the graph below correctly.



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(1)	THE TANK OF THE PARTY OF THE PA	IAL	\leq	<u>on Warking</u>	Ċ	iU	IDE TERM II, 202
- QN			14,	SOLUTIONS		QN	SOLUTIONS
1	SECTION A:(40 MARKS)		15.	$\frac{3}{8} - \frac{3}{4} + \frac{1}{2}$			(a) R = H - L
	_x 2			$=(\frac{3}{8}+\frac{1}{2})-\frac{3}{4}$	м,		R = 40 - 13 B.
	8 6	В,		7 7			R = 27 sugarcanes
2	-9 + 6	M,	1	$=\frac{3+4-6}{8}=\frac{7-6}{8}=\frac{1}{8}$	Α,		
	-9 + 6 = -3	l . '	16.	S x S = C	_		(b) 13, 15, 18, 28 30, 40
3	72,000	A,	1,0	S ₂ = C			M,
-	+ 702	В,		144cm ² = C	M,		(18 + 28) ÷ 2
-	72,702	٠,		$\sqrt{144CM^2} = C$			46÷2 A.
4	2(w-4)+6=10 2w-8+6=10		1	12cm = C	A,		= 23 sugarcanes
	2w - 2 = 10	NA.	77	C = 12cm			(c) Mean = Sum of data
	2w - 2 + 2 = 10 + 2 2w = 12	м,	17.	SI = P x R x T SI = sh 600,000 x 2 x 4	M,		No of data
	$\frac{2}{2}$ = $\frac{12}{2}$	١,		100	١ '		$M = \frac{18 + 30 + 15 + 40 + 13 + 28}{6}M,$
-	w = 6	Α,	_	SI = sh.48,000	Α,		Mean = 144
5.	P = (Circumf) + R + R		18.	3 books → sh 6000			6
-	$\frac{1}{4} \times (2 \pi R) + R + R$ $\frac{1}{4} \times 2 \times 22 \times 14 + 14m + 14m$			1 book → sh 6000÷3 = sh 2000	_		= 24 sugarcanes A,
-	4 7	м,		1 doz = $\frac{3}{2}$ x 12 books	В,	25	(a) Goats = 1
	= 22m + 28m	A,		= ^ 18 books			Remainder = $\frac{3}{3} - \frac{1}{3} = \frac{3-1}{3} = \frac{2}{3}$
6.	= 50m 36, 28, 21, 15, 10, <u>6</u>		1	18 books —▶18 x sh 2000	_		Sheep $\frac{1}{8} \times \frac{2}{3} = \frac{1}{12}$
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	М,	_	= sh 36000	В,		Cattle $1 - (\frac{3}{2} + \frac{3}{2})$ B,
	\vee \vee \vee \vee	7	19,	-25 x8 parts			1 - 3
	-8 -7 -6 -5 -4 10 - 4 = 6	Α,		4 = 2 parts	м,		$\frac{12}{12} - \frac{5}{12} = \frac{7}{12}$ B,
7.	R = H - L		1				12 12 12
	R = 4 - 10	м,			Α,		(b) Sheep $\rightarrow \frac{1}{12} \rightarrow 9$ B
	4 + 10			*Mark any 2 shaded parts.			1 part represents 9 animals
-	R = 14	Α,	20.	7~9′2 4	-	1	12 parts represent 12 x 9 a
	*Check through the candidates work and mark accordingly.			$= 7.924 \times 10^{2}$	В,	-	= 108 animals
	K	SSEA	thin the	SECTION B: (60 MARKS	87076	26	(a) Sketch
		В,	21,	(a) k+7+2k+2=36 k+2k+7+2=36	M.		
	P	2		3k+9-9 = 36-9			60° 45° D
1		11 200		$\frac{3}{2}$ k = $\frac{27}{2}$	M,		C 60° 45° D
_				3 k = 9	A,	122	\F/
9.	15÷4 - 7÷4	M,			<u> </u>	1	*
	= (15 - 7) ÷ 4 8 ÷ 4	141,		(b) Music 2k + 2 + 2k			
	= 2	A,		$(2 \times k) + 2 + (2 \times k)$	M,		
0	2½ hr ½x 60³0		1	(2 x 9) + 2 + (2 x 9) 18 + 2 + 18	ı.	1	/ i \ c,
-	= 2 hr 30min	ь		= 38 pupils. Or	A,		
- 1	Hrs min	В		2k + 2k + 2	l .		
- 1	- 2 30	_		4k + 2		l	FI 8cm DN
	1 30 pm	В,		(4 x k) + 2 (4 x 9) + 2		1	
11.	LIX	М,		36 + 2			(b) 4 8cm / 4 9cm / 5cm B,
	L + IX	,	22.	= 38 pupils (a) 3 ⁷ = (finite 5)	_	27.	
	50 + 9 = 59	Α,	22.	$3 \times 3 = $ (finite 5)	М,		,5cm
2.	24÷0.04		1	9÷5 1 r 4 (finite 5)	_		
-	24 - 4	м,		= 4 (finite 5)	Α,	1	4cm F 4cm
	1, 100	''''		(b) S M T W T F S 0 1 2 3 4 5 6		1	(a) $(EF)^2 + 4^2 = 5^2$
- 1	24 x 100	١.		Tuesday - 69 = (finite 7)	M,		(EF) ² + 16 = 25
	= 600	Α,		$2 - 60 = 69 \div 7 = 9 \times 6$	['	l	EF ² + 16 - 16 = 25 - 16 M
13	a.p			2 - 6 = (finite 7) (2 + 7) - 6	М,	1	√EF² =√9 A,
1	2.8			9 - 6 = 5	'	1	EF = 3cm
	a = 2, b = 8			The day was Friday	A,		
	3a - ½b	M,	23.		В,	1	(b) $P = S + S + S + S + S$
	(3 x a) - (½ x b (3 x 2) - (½ x B)		1	 Two thousand, four hundred sixty nine. 	В,		P = 8an + 7an + 5an + 5an + 7an
	$(3 \times 2) - (\cancel{5} \times \cancel{5})$ $6 - 4$			manaroa aixty filito.	1-,	1	P = 32cm A
1	= 2	Α,		(b) 74928 200	М,		1
14.	(7 + 4) - 1 Or (7 - 1) + 4	M,	1		'		
	11 - 1 6 + 4	· `		= 200	A,		1
1	= 10 boys = 10 boys	A,	1000	the state of the s	_		per de producer producer en un un construcción de

(PKD)-1

		ON	SOLUTIONS	
ON SOLUTIONS	-	QN 32.	Village to market Market to town	_
28. (a) $4r-6 = 2(r+4)$ 4r-6 = 2r+8	м,		$D = S \times T$ $D = S \times T$	В,
4r - 6 + 6 = 2r + 8 + 6	,		D = $40 \text{km/hr} \times 1\frac{1}{2} \text{ hr}$ D = $40 \text{km/hr} \times 1 \text{hr}$ D = $40 \text{km/hr} \times \frac{3}{2} \text{ hr}$ D = 40km	
4r = 2r + 14 4r - 2r = 2r - 2r + 14			D = 60km	
2r = <u>14</u>			Return	
2 2 r = 7	A,		T = D = 100km = 2hrs	В,
			S 50km/hr	٦,
(b) Fred Mary Now 12 27	2.		Village to market Resting	
x years $12 + x = 27 + x$	м,		D = 60km 30min	
2(12 + x) = 27 + x $24 + 2x = 27 + x$, m,		$T = 1\frac{1}{2}hr or \frac{1}{2}hr$	
24 - 24 + 2x = 27 - 24 + x	M,	ς	Market to town Resting Returning D = 100km	
2x = 3 + x 2x - x = 3 + x - x			T = 1hr	1
x = 3 years	A,			
29. (a) Total parts	<u> </u>		100	
2 + 4 + 9 = 15	В,		100 F Town	1
Badru = 4	"		5 10Wil S.	s,
	+		80	1
(b) Yasin Badru Alsha Total			Stance Market 40 Stance 40	
9 - 2 = 7			la 40	
7 parts represent 63 acres	В,			S,
1 part represents (63÷7) acres = 9 acres	В,		Village 0 7am 8am 9am 10am 11am 12	4
15 parts represent = 15 x 9 acres			7am 8am 9am 10am 11am 12 1pr 10on 11me	1
= 135 acres.	В	3		-
Or	B,		***END***	
Let the total land be C				
7C = 63 acres	G Call		A SECOND	
35 x 7C = (63 x 15) acres	3 44			
	13 (2)			33
7C = 63 x 15 acres 7 = 135 acres	T. Shake		The same of the sa	
	+			
30 (a) 7 2 9 x 6 3 O r	В,			
2 1 8 7 *Mark use of lattice				
+ 4374	В,			
45927	В,			
(h) 352	\sqcap			
(b) 352 47 16544 0 1032				
144 Or -10544	11			
214 = 352				
0244	M,			
<u>- 235</u>				
94				
<u>- 94</u>				
00 - 130%	A.			
(a) $x + 70^{\circ} = 130^{\circ}$ $x + 70^{\circ} - 70^{\circ} = 130^{\circ} - 70^{\circ}$	M,			
$x = 60^{\circ}$	A,			
Or $x + 70^{\circ} + 50^{\circ} = 180^{\circ}$	'			
$x + 120^{\circ} = 180^{\circ}$				
$x + 120^{\circ} - 120^{\circ} = 180^{\circ} - 120^{\circ}$				
x = 60°				
Note * check through the candidates work.	M,			
$y + 60^{\circ} + 70^{\circ} = 180^{\circ}$				
y + 130° = 180° y + 130° - 130° = 180° - 130°	M,			1
y + 130 - 130 y = 150 - 130	^,			l
,	Steen			
Or y + 130° = 180°	1			
	1			
$y + 130^{\circ} - 130^{\circ} = 180^{\circ} - 130^{\circ}$ $y = 50^{\circ}$	1			