

10.

question paper.

MITYANA MUNICIPAL ACADEMIC COMMITTEE

P. L. E. MOCK EXAMINATION 2024 MATHEMATICS

Time: Allowed 2 Hours 30 Minutes

Signature:

Rand	dom No.	Personal	No.		
Cano	lidate's Name:			Signa	ture:
	DO NOT OPEN	THIS BOOKLET	UNTIL YO	J ARE TOLD T	o do so.
REA	D THE FOLLOWING IN	STRUCTIONS CA	AREFULLY	<i>r</i> .	
1.	Do not open this bookle	et until you are told	to do so.		
2.	This paper comprises to	wo sections A and I	3.	FOR EXA	MINER'S U
3.	Section A has 20 question	ns (40 marks) Each	question	QN. No.	MARKS
	carries 2 marks.			1-5	
4.	Section B has 12 quest	ions (60 marks)		1-3	
5.	The paper has 12 page	s altogether.		6 - 10	
6.	. All answers to both section	ons A and B MUST	be written	11 - 15	
	in the spaces provided		-		
7.	All answers must be wri	tten in blue or black	ballpoint	16 - 20	
A.c.	pen or ink.		•	21 - 22	
8.	No calculators are allow	ed in the examination	ns room.	23 - 24	
9.	Diagrams and Graph w strictly.	ork must be done	in pencil	25 - 26	
10.	Un necessary alteration	of work will lead t	o loss of	27 - 28	
10.	marks.	77.1		29 - 30	
11.	Any handwriting that car	nnot easily be read	may lead	31 - 32	
	to loss of marks			31.32	

Do not fill anything in the boxes indicated "FOR

EXAMINERS USE ONLY" and those inside the

FOR EXAMINER'S USE ONLY									
QN. No.	MARKS	SIGN							
1-5									
6 - 10									
11 - 15									
16 - 20									
21 - 22									
23 - 24									
25 - 26									
27 - 28									
29 - 30									
31 - 32									
TOTAL									

SECTION A 40 marks.

1.	Add: 176 + 23	2.	Write the number represented on
			the abacus in words.
			TH H T O
3.	Simplify: 11bk - 6xy + bk - 2xy.	4.	Nsibuka bought 19 mangoes in the
			market. Represent the mangoes bought using tallies.
5.	Round off 69.764 to the nearest tenths.	6.	Given that set m ={a, v, d, e, f, k} and set L = {v, k, a} Represent the above information on the Venn diagram.

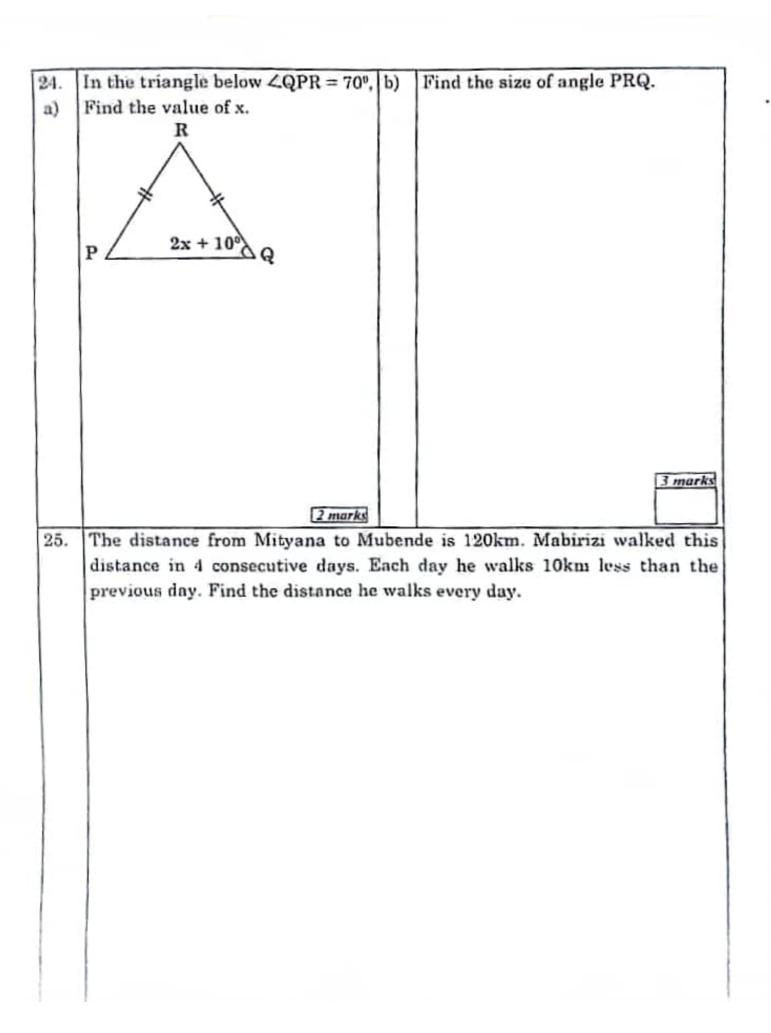
7,	Given that two numbers are in the	8.	Using a ruler and a pair of
	ration of 3:5. If the LCM of the two		compasses, construct an angle o
	numbers is 90. Find their GCF.		30°.
	N. F. T. L. D. O. L.		
9.	Madam Joyce bought 8 plates at Shs. 800 for every 4 plates . Find		Work out -7-4 on the number line shown.
	her total expenditure on all the		
	plates.		<
			4 3 2 1 0 1 2 3 4
		7	
11.	Solve $3(x - 4) = 9$	12.	Simplify: $1\frac{1}{6} + \frac{1}{5}$
		-29-	, 6, 5
		, .	
egs)			© Miryana Municipal Academic Committee 202

find the value of K. 4, 6, 9, 14, 21, 3k + 2. line PQ and HG. P	13.	The marking of mocks started on Thursday and it took 13 days. On which day of the week did the marking end.		If a dice is tossed once. Find the probability that an even prime number shows up?
at 9:45am and ended at 1:15pm. How long was the briefing? curved to form the net ball me ring. Find the diameter of	15.	find the value of K.	16.	Q Q Q Q Q Q Q Q Q Q
	17.	at 9:45am and ended at 1:15pm.	18.	curved to form the net ball metal ring. Find the diameter of the

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4.0	Inn va u la
19.	The Venn diagram below shows 20. Subtract: 1 0 3 four
	the prime factors of K and 30. If
	the GCF of F _K and F ₃₀ is 15. Find
	the value of y
	F _K F ₃₀
	$\begin{pmatrix} 3_2 & \begin{pmatrix} 3 \\ y \end{pmatrix} & 2_1 \end{pmatrix}$
_	SECTION B (60 marks)
21.	In a village, 40 farmers grow maize only (M), (v - 6) grow both maize and
	cassava, (v -10) do not grow any of the two crops and (v +12) grow cassava
	only (c).
a)	Use the information above to complete the Venn diagram below.
aj	Ose the information above to complete the vehil anglain select.
	n(M) n(c)
	(v-10)
	12 marks
b)	Given that the number of farmers who grows maize only is twice those who
	grow none of the two crops, find the value of V.
	13 mar A

b) Express 0.23 as rational number. 23. Mr. Kawere designed his piece of land as shown. (2y +4)m 3m 6m 4m 4m 4m 20m. a) Find the value of Y. b) If Mr. Kawere planted trees around		
b) Express 0.23 as rational number. 2 marks 2 marks 2 marks 2 marks 2 marks 3 m 6 m 4 m 20 m. a) Find the value of Y. b) If Mr. Kawere planted trees around his piece of land at the intervals of 2 metres, how many trees were	22.	Simplify: $18.4 + 0.6$
23. Mr. Kawere designed his piece of land as shown. Camarks		21.3 - 17.5
23. Mr. Kawere designed his piece of land as shown. Camarks		
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his piece of land at the intervals of 2 metres, how many trees were		20m.
his piece of land at the intervals of 2 metres, how many trees were	a)	Find the value of Y. h) If Mr. Kawara planted trace and the
of 2 metres, how many trees were		b) If Mr. Mawere planted trees around
planted.	}	
	1	planted.
	1	



26.	Solve the inequality 5 - 3y ≤ 14.	
		.i murks
b)	Find the solution set for the above i	nequanty.
		2marks
27	Aunt Berna went shopping and bou 5kgs of maize flour at shs. 2500 per 4kgs of rice at Shs. 4000 per kg. 500g of omons at Shs. 2000 per 250g 2 bunches of matooke at Shs. 9000.	kg.
a)	Work out her total expenditure	b) If she was offered a discount of 10%, how much did she pay?

2	8.	Using a ruler and a pair of compasses only, construct a quadrilateral PQRS
		where PQ = 6cm, \angle PQR = 45°, PS = 3cm. \overline{QR} = 4cm and \angle SPQ = 90°
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1		4 marks
	b)	Measure SR =cm

Given the figure below, study and use it to answer the questions that follows. 29. Find the length of line PQ a) (02 marks) Find the area of shaded part. (Use $\pi = 3.14$) b) (03 marks)

30. Given the digits 6, 0, 4. List down three possible numbers that can be formed from the digits above. b) Work out the product of smallest and the biggest num formed.	
that can be formed from the digits formed.	
. above.	
-	
l I	
	- 1
1 1	
2 ma	irks
3 marks	
31. The table below shows marks scored by some pupils.	
Marks 40 80 64 72	- 1
a) If the mean mark of the pupils was b) Find the number of pupils that	did
59, find the value of K the exams.	
1 marks	mark

32)	On	the C	o-ordi	nate g	raph l	elow	plot. P	(-2,-1)	S('2,	·1)		
a)							† y-	axis				
			T	1	T		4	T	1	T	T	7
			-	-	Q	-	3	-	-	R	-	-
		_	-	-	*	+	2	-	-	×c	-	-
							- 2		_			_
							1					
		-5	-4	-3	-2	-1	0	1	2	3	4	5 x-axis
					\top		-1		\top			-
			-	+	+	+	-2	+	+		+	-
		-	+	+	+	+	-3	+	+	+		_
		_	-		-	-	-4	_	-	+	-	
												_
							+					
												(02 marks)
b)	Lis	st the	co-orc	linate	of;							
	Q)							
	151				,							
	R()							
												(02 marks)
c)	Jo	in P t	o Q, Q	to R,	R to S	and S	S to P	o forn	a tra	peziur	n.	
												(01 mark