MPIGI DISTRICT ACADEMIC BOARD MOCK EXAMINATION 2024

SUBJECT		MATHEMATICS				
CLASS DURATION	:					
OWITON	:	2 HOURS 30 MINUTES				
EMIS NO.	:					
INDEX NO.	;					
CANDIDATE'S	S NAN	ME:				
CANDIDATE'S	S SIG	SN:				

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. The paper is made up of two sections: A & B.
- 2. Section A has 20 questions (40 marks)
- 3. Section B has 12 questions (60 marks)
- 4. Answer ALL questions in both sections A & B
- All answers must be written in the spaces
 provided in BLUE or BLACK ink. Only
 diagrams should be drawn in pencil.
- 6. Unnecessary crossing of work will lead to loss of marks.
- 7. Poor handwriting, which cannot be easily read may lead to loss of marks.
- 8. Do not fill anything in the boxes shown

FOR EXAMINER'S USE ONLY				
PAGES	MARKS	EXAMINER'S INITIALS		
Page 2	4 4	Ţ.		
Page 3	4.1			
Page 4				
Page 5				
page 6	\$ s			
Page 7	(E)	u _j		
Page 8	P 2	E T		
Page 9	4.0	- page -		
Page 1	0		1	
Page 1				
Page 1	2			
TOTAL			11	

Turn Over



SECTION: A (40 MARKS)

1	Work out:	24	117	_
	Work out.	54	+	5

- If represents 12 balls, how many balls are represented by
- 2. Write 20024 in words.
- 7. Solve for m. $\frac{1}{2}$ m 4 = 16
- 3. Given that: X= {1, 2, 1, 3, 4} Y= {4, 2, 3, 1}
- i) n(X) = _____
- ii) Set X and Y are____sets
- 4. Write the afternoon time shown on the clock face below in 24hour clock.

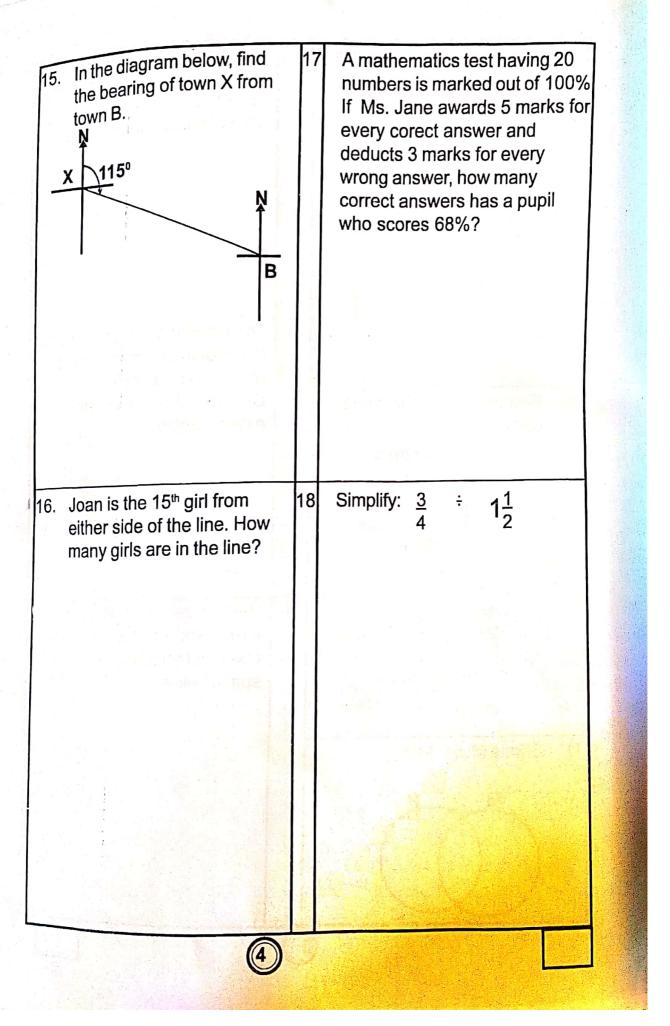


5. Simplify: -7 - -9

8. The exchange rates for US dollars at a Forex Bureau are;

Buying rate Selling rate Ugx 3700 Ugx 3800

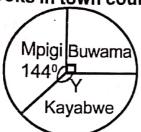
Joseph had 200 US dollar, how much money did he get after exchanging into Uganda shillings



 Find the sum of the next two missing numbers in the sequence below.

1, 4, 9, 16, 25, _____, ____

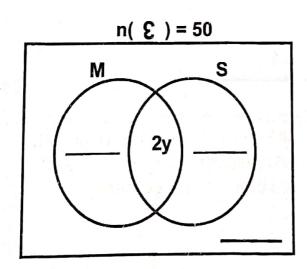
20. The pie-chart below shows how Mpigi district distributed text books in town council schools.



If Buwama received 1800 text books, how many were they altogether?

SECTION: B (60 MARKS)

- 21. In a primary seven class of 50 pupils, a half of them like Mathematics (M), some pupils like Science (S), 2y pupils like both Mathematics and Science, 10 pupils like Science only and y + 5 dislike the two subjects.
- a) Use the information above to complete the venn diagram below.



(3 Marks)

b)	Find the valu	ue of y.	rive married	- Par 1 Tr	
					(2 Marks)
c)	What is the the two subj	probabilit ects?	y of picking	a pupil at rador	m who dislikes
			Tagras 1		(1 mark)
22. a)	Given the confirmation from the lar		3 6 7 igit number	using all the ca	ards.
	Comm the or	allost A	-11-14 I		(1 mark)
b)	Form the Sil	ialiest 4 -	aigit numb	er using all the	cards.
c)	Find the sun	n of the la	rgest and s	mallest numbe	(1 mark)
- ,	A.J.	(<u>}</u>		manoot nambo	io formed.
		inn.	tu ta iri		(2 Marks
23a)	Workout:	4	3	2 five	·
	_	_ 1	1	3 _{five}	
					(2 Marks
) '	If each adult	and eac	h child pai	4 children from d Sh. 5000 and pay altogethe	
	10 to 1				(2 Mark
		1		(10)	(2 IVIUIT

Study and complete Hasifa's shopping bill below.

Item	Quantiti	a's snopping bill below.		
Meat	Quantity	Unit Cost	Total Cost	
	11/ ₂ kg	Sh. 14000	Sh	
Rice	2kg	Sh.	Sh. 10,000	
Sugar		011	311. 10,000	
Cooking oil	g	Sh. 5000kg	Sh. 2500	
	3 litres	Sh	Sh	
TOTAL	EXPENDITURE		Sh. 48,500	

(5 Marks)

if she was given a discount of 10%, how much money did she pay?

(1 mark)

25a) Using a pair of compasses, a ruler and a pencil only, construct a parallelogram KLMN where line KL = MN = 6cm, angle LKN = 120° and line LM = KN = 4cm.

(4 Marks)



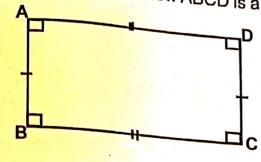
1		
b)	Drop a perpendicular from point M to meet line KL at T. Find the area of the parallelogram formed.	
		(2 Marks)
26a)	0.6 x 2.7 0.03 x 0.9	
		(2 Marks)
b)	During a population census of acertain village, $\frac{1}{4}$ of the were counted on Monday, $\frac{2}{5}$ of the remainder were counted and the rest on Wednesday. Find the fraction of people that was counted on Wednesday.	inted on
		(3 Marks
27.	A motorist started the journey from Lyantonde at 7:00am at a speed of 70km/h and reached Lukaya at 9:00am. A for 30 minutes at Lukaya, he continued to kampala move constant speed of 70km/h for 1 hour. He rested at Kampala move constant speed of 70km/h for 1 hour.	n moving after resting ring at a
27.	at a speed of 70km/h and reached Lukaya at 9:00am. A	n moving after resting ring at a pala for ours.

(4 Marks)



PEMIC BOARD

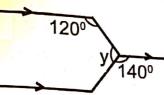
28a) In the figure below ABCD is a rectangle and angle ABC is (4p + 30)°



a) Find the value P.

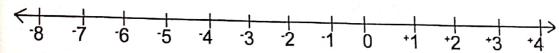
(2 Marks)

b) Calculate the size of angle marked y in the diagram below.



(3 Marks)

29.a) Use a number line below to work out, †3 - 7.



(3 Marks)

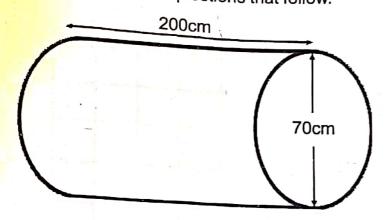


SOCIAL STUDIES AND RELIGIO

b) If tod	lay is Wedneso	lay, what day of the	week was it	32 days ago?
				(2 Marks)
30. Solve	the inequality:	5- 2x ≥ ⁻ 7.		
				(2 Marks)
) A mothe	or in 20.			
the mot	ther will be thrid is the daught	older than her daug ce as old as daugh er now?	ihter. In two y iter.	ear's time,
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(3 Marks)
Commence of the control of the contr	- 1.00m	(10)		
				- 1

31. The diagram below shows a roll of cloth which was cut open to make some clothes.

Use it to answer the questions that follow.



a) Find the length of the cloth which was made out of the sheet.

$$\left(77 = \frac{22}{7}\right)$$

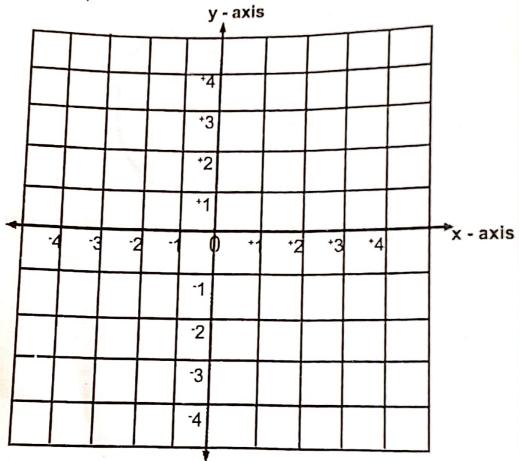
(2 Marks)

b) Work out the area of the cloth in square metres.

(2 Marks)

32. On the grid below,

Plot the following points; p (3, 1), Q (13, 13), R (2, 13), and S (-2, -1).



(4 Marks)

b) Join the points Q to R, R to S, S to P and P to Q.

(1 Mark)

c) Find the area of the figure formed after joining all the points. (1 box represents 1cm)

(1 Mark)