## MPIGI DISTRICT ACADEMIC BOARD MOCK EXAMINATION 2024

SUBJECT: MATHEMATICS

CLASS: PRIMARY SEVEN

DURATION: 2 HOURS 30 MINUTES

EMIS NO.: INDEX NO.: CANDIDATE'S NAME:

## 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)

CANDIDATE'S SIGN: \_\_\_\_\_

- 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.
- 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				
Page 3	i en	No. of the state o		
Page 4		entro		
Page 5				
page 6				
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Page 8				
Page 9		1987 (St.)		
Page 10				
Page 11		1		
Page 12	Section 4. Here			
TOTAL				

**Turn Over** 



**SECTION: A (40 MARKS)** 

1. Work out: 3 4	+	5
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If represents 12 balls, how many balls are represented by

•	\ A / - ' 4 -	20024	•	
2.	WYTITO	THITTA	ın	WORDS
<b>~</b> .	VVIIIC	LUULT		woulds.

7. Solve for m.  $\frac{1}{2}$ m - 4 = 16

ii)	Set X and	Y	are	sets
,	OCL / CITA	•	ui U_	

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

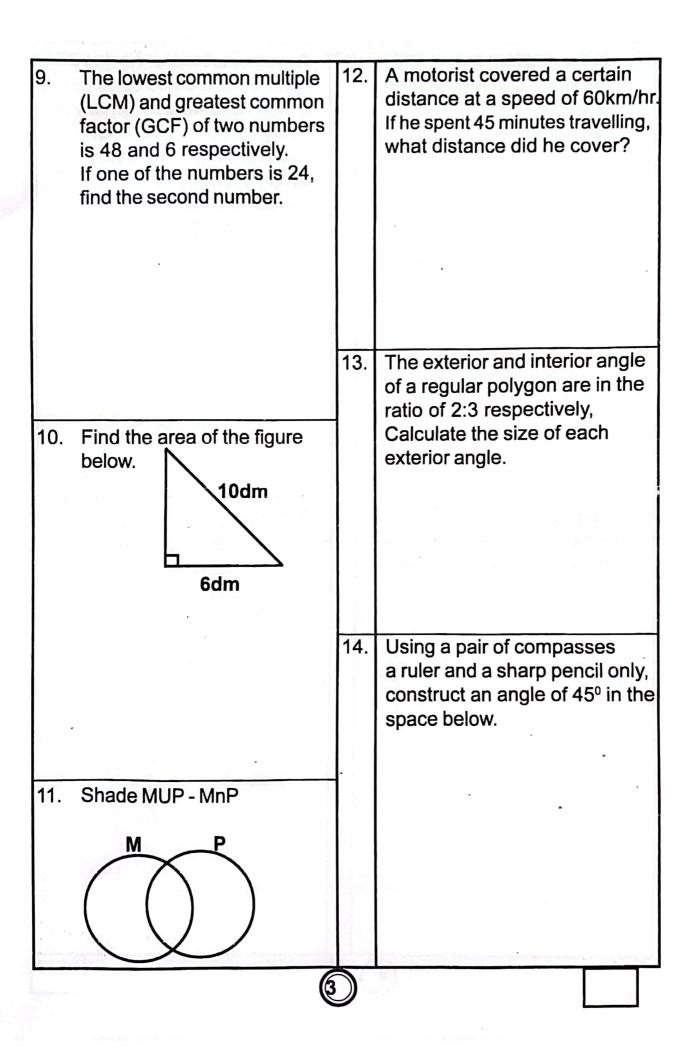
Buying rate Selling rate Ugx 3700 Ugx 3800

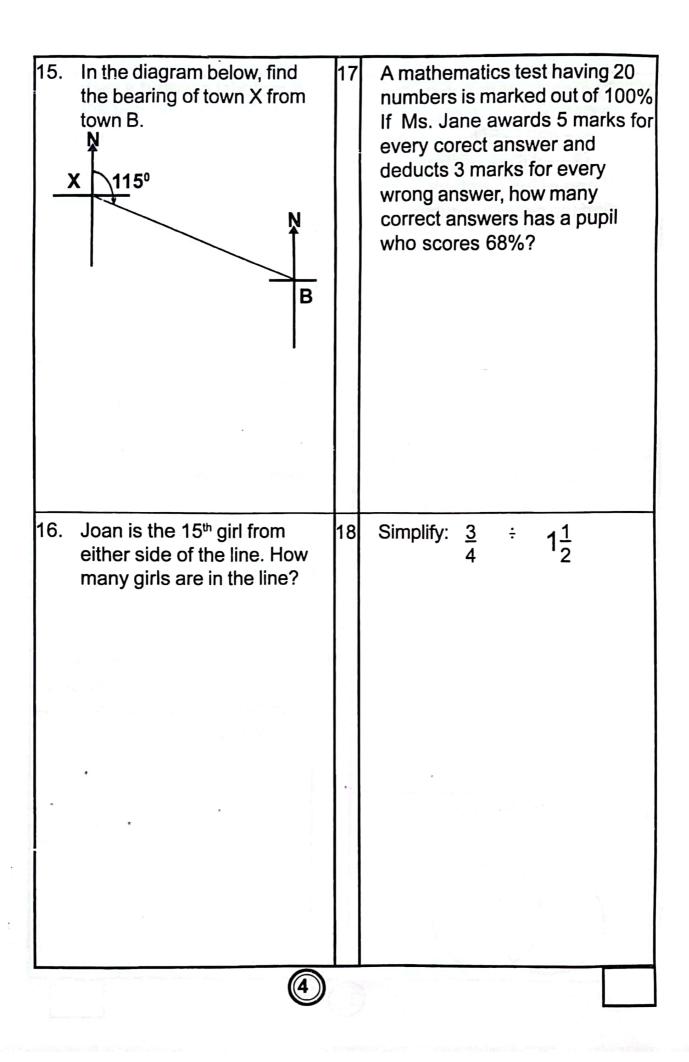
4. Write the afternoon time shown on the clock face below in 24hour clock.



5. Simplify: -7 - -9

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

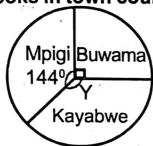




Find the sum of the next two missing numbers in the sequence below.

1, 4, 9, 16, 25, \_\_\_\_,

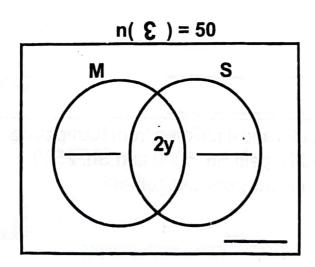
20. The pie-chart below shows how Mpigi district distributed text books in town council schools.



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	ie of y.			i agaz - di t
					(2 Marks)
c)	What is the parties the two subjects		y of picking	g a pupil at radon	n who dislikes
					(1 mark)
22. a)	Given the c Form the lar		3 6 7 igit numbe	<b>0</b> r using all the car	ds.
					(1 mark)
b)	Form the sm	nallest 4 -	digit numb	er using all the ca	ards.
					(1 mark)
c)	Find the sun	n of the la	rgest and s	smallest numbers	formed.
		ili aasaa	on chalquin		(2 Marks)
23a)	) Workout:	4	3	2 five	
		_ 1	1	3 five	(2 Marks)
b) <sub>.</sub>	If each adult	and eac	h child paid	4 children from K I Sh. 5000 and S pay altogether?	Campala to Mpigi. h. 2500
					(2 Marks)
			<b>6</b>		

24. Study and complete Hasifa's shopping bill below.

Item	Quantity	Unit Cost	Total Cost
Meat	11/2kg	Sh. 14000	Sh
Rice	2kg	Sh	Sh. 10,000
Sugar	g	Sh. 5000kg	Sh. 2500
Cooking oil	3 litres	Sh	Sh
TOTAL	Sh. 48,500		

(5 Marks)

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

(1 mark)

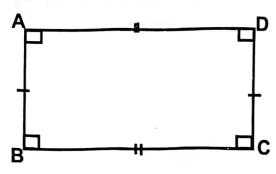
25a) Using a pair of compasses, a ruler and a pencil only, construct a parallelogram KLMN where line KL = MN = 6cm, angle LKN = 120° and line LM = KN = 4cm.

(4 Marks)



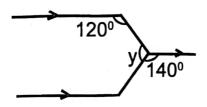
1000	
b)	Drop a perpendicular from point <b>M</b> to meet line <b>KL</b> at <b>T</b> .  Find the area of the parallelogram formed.
-	
	(2 Marks)
26a)	Simplify: 0.6 x 2.7 0.03 x 0.9
	(2 Marks)
b)	During a population census of acertain village, <sup>1</sup> / <sub>4</sub> of the people
	were counted on Monday, $^2/_5$ of the remainder were counted on Tuesday and the rest on Wednesday.
	Find the fraction of people that was counted on Wednesday.
-	(3 Marks)
27.	A motorist started the journey from Lyantonde at 7:00am moving
	at a speed of 70km/h and reached Lukaya at 9:00am. After resting
	for 30 minutes at Lukaya, he continued to kampala moving at a constant speed of 70km/h for 1 hour. He rested at Kampala for
	<sup>1</sup> / <sub>2</sub> hour and then returned directly at Lyantonde for 2 hours.
	Calculate the motorist's average speed while travelling.
į.	
	(4 Marks)
	8

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



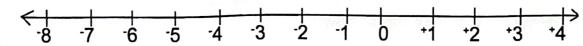
(2 Marks)

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.



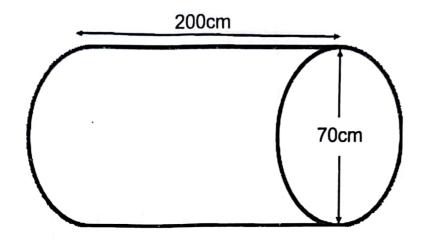
(3 Marks)



b) If today is Wednesday, what day of the week was it 32 day	/s ago?
(2 M	larks)
Lanuage, v. s.	-
30. Solve the inequality: $5-2x \ge 7$ .	
·	
(2 M	arks)
(2.14)	
b) A mother is 30 years older than her daughter. In two year's	time,
the mother will be thrice as old as daughter.	
How old is the daughter now?	
(3	Marks)
	7

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.

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

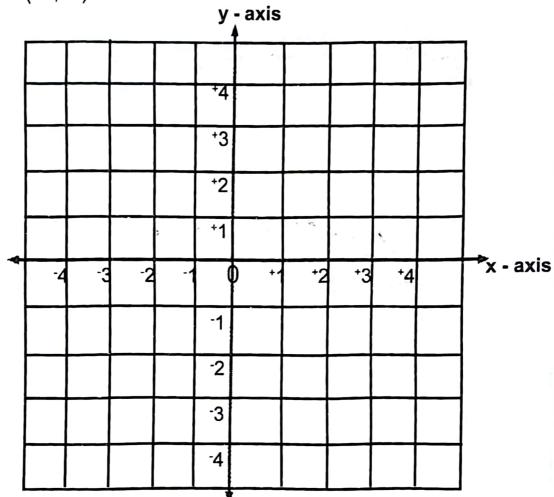
(2 Marks)

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 ( $^{+3}$ ,  $^{+3}$ ), R ( $^{-2}$ ,  $^{+3}$ ), 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)