## THE PRIME EXAMINATIONS 2024



## P.7 MID MARCH MATHEMATICS

Time allocated 2 hours 30 minutes



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## READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. This paper has two sections: A and B. Section A has 20 questions (40 Marks) and Section B has 12 questions. (60 Marks)
- 2. Answer ALL questions. All the working for both sections A and B must be shown in the spaces provided.
- 3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than on graphs and diagrams will not be marked.
- 4. No calculators are allowed in the examination room.
- 5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 6. Do not fill anything in the table indicated "FOR EXAMINERS' USE ONLY"

**PUBLISHERS OF:-**

FOR EXA	MINERS' US	E ONLY
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1-5	-18/5	
6 - 10	•/:	
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED AIR Consultant Mathematics Department (PEC)

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Turn Over

	Work out: 236 + 102	2	Marks) Express <b>67</b> in Roman numerals.
	Work out: 236 + 102		
			Find the value of 9 in the numeral
1	Given that $P = \{2,3,4,5,6,7,8\}$ and $Q = \{1,2,3,4,6,12\}$ . Find $n(P-Q)$	4	365.29
	Vigor /	_	Arrange the integers in descending
5.	Find the next number in the sequence below.  16, 17, 21, 30, 46,	6	order: 6, -3, 0, 2, -5
1,60,		on!	y construct an angle of 75°.
	Using a ruler and a pair of compasse	s onl	y, construct an angle of 75°.
3	Using a ruler and a pair of compasse  Find the greatest common factor of 18,30 and 42.	s onl	y, construct an angle of 75°.  Change $\frac{3}{4}$ litres to ml.

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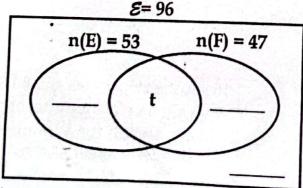
0 0	Change 112 <sub>three</sub> to base ten.	11	Use $>$ , $<$ or $=$ to complete the statement. $\frac{5}{6} \frac{7}{8}$
12	In the diagram below, find the size of 750 1150	ang	le marked p.
13	Sarah bought a dress at sh.25000 and sold it at a profit of sh.5000. How much did she sell the dress?	14	Calculate the circumference of a circular object whose radius is 14cm. $\left(\Pi = \frac{22}{7}\right)$
15	Simplify: 13k – 4m -7k + 3m	16	Aisha deposited sh.800,000 in a bank which offers an interest rate of 16% per annum for 8 months. Find the simple interest she got.

WARNING: Not to be reproduced electronically!!	With out dividing, show that the number 537 is exactly divisible by 3.	18	The attendance of pupils of p.7 in Buhoye P/S is as follows: Mon -50, Tue- 61, Wed-73, Thur-80 and Fri -61. Calculate the average attendance of pupils that week.
19	Find the value of $8^2 + 6^2 + 10^0$ .	20	A staff meeting started at 11:05a.m. and ended at 1:20 p.m. How long did it last?
	E hogen asimus in an aranning Ar-	bea	
21	At a party of 96 guests 53 could speak	60 M	arks) assistanti ling da

At a party of 96 guests, 53 could speak English (E), 47 could speak French (F) t guests could speak both English and French whereas 16 guests could not speak any of the two languages above.

(a) Complete the Venn diagram below.

(03 marks)

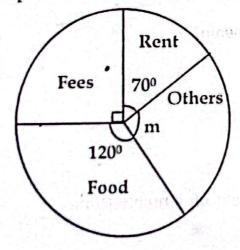


(b) Calculate the number of guests who could speak both English and French.

(02 marks)

(b) Three daughters Anitah, Allen and Agnes shared sh. 240,000 in the ratio 3:4:5 respectively. How much money did each get? (03 marks)

23 The pie chart below shows how Kidima spends his monthly salary.



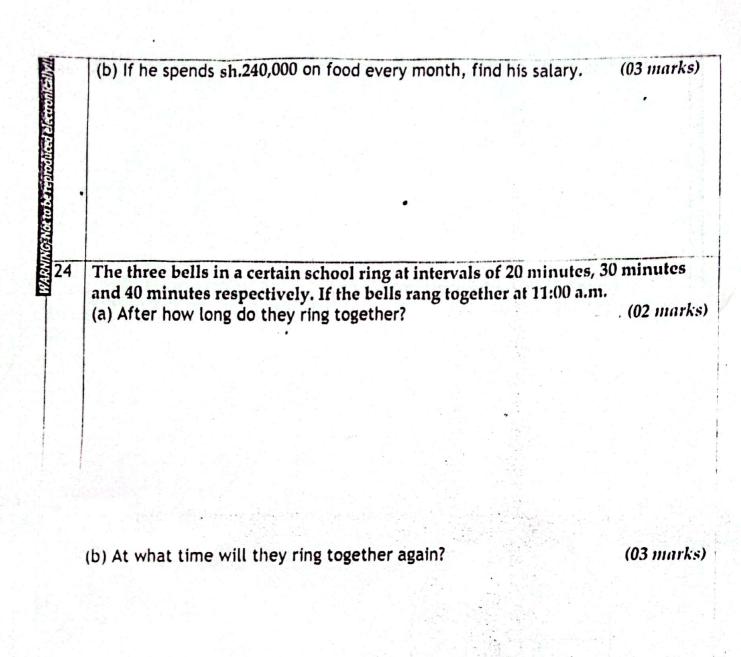
(a) Find the value of m in degrees.

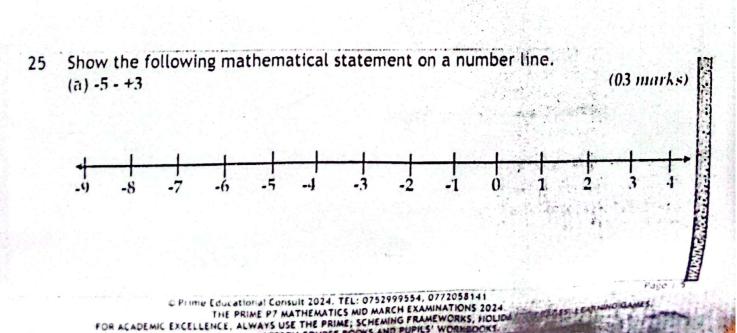
(02 marks)

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LESSON COURSE BOOKS AND PUPILS' WORKBOOKS.

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1.0		
-		
		그는 사용하다 그런 얼마 하는 사람들은 모르고 살았다.
		그리고 그리다 하는데 나와 마셨는데 사람들이 되었다면 하다를 모르는데 없는데 다른데 다른데 다른데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면
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26	(a) Work out: 0.36 x 0.27	(02 marks
20		
	$0.12 \times 0.9$	
	and an extension of the second	
	Average Control of the Control of th	, 보고 :
	10 1	do a piece of work. How many boys are needed to
· *	(b) Eight boys take 12 days to	do a piece of work. How many boys are needed to
	do the same work in six da	ys:
		그 이번 시작하다는 얼마는 것 같아 있다. 이 바라이 얼마나 그렇게
	35	
		pressed in standard form to give $4.096 \times 10^{2}$ ? (02 mark)
	what number has been ex	pressed in standard form to give zive (02 mark
27	(a) What humber	
		그렇게 되는 그를 가득하다면 그를 걸느라 하는데 하는데 다른데 하는데 되었다.
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		/-/ 10	orm using vi	1100-		
	(b) Write 3695.4 in	n expandeu				
	The table below sharks					
5	The table below sh	ows marks so	cored by P.	7 pupils in	a test. 70	7
)	The table below sh	75	90	80	2	
	Marks Frequency	3	1	4	Live Ch.	
						(02 1
	(a) Find the median	mark.				
		7				
	[1] [전세계 : [1] [전기 [전기 ] [전기					5.44
	lan an the the even					(0.3 11)
	(b) Calculate the aver	rage score.				(03 11
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	(b) Calculate the aver			2 days to d Un six day		d 20 <b>91</b> 8 a
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	(c) Find the range of t	the scores.		Vsia siz nii		(01 111
	(c) Find the range of the A pupil was sent for s	the scores.		Vsia siz nii		(01 111
	(c) Find the range of t	the scores.		Vsia siz nii		(01 111
	(c) Find the range of the A pupil was sent for sitems.	the scores.		Vsia siz nii		(01 111
	(c) Find the range of the second sec	the scores. shopping wif	th sh.30,000	Vsia siz nii		(01 111
	(c) Find the range of the A pupil was sent for sitems. $1\frac{1}{2} \text{ kg of sugar at sh.} \\ 250 \text{ ml of cooking oil}$	shopping wit	th sh.30,000	Vsia siz nii		(01 1114
	(c) Find the range of the A pupil was sent for sitems. $1\frac{1}{2} \text{ kg of sugar at sh.} \\ 250 \text{ ml of cooking oil}$	shopping wit	th sh.30,000	Vsia siz nii		(01 1114
	(c) Find the range of the second sec	shopping wit	th sh.30,000	Vsia siz nii		(01 1114

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