

THE PRIME EXAMINATIONS 2024

P.7 PRE MOCK MATHEMATICS

Time allowed 2 hours 30 minutes

INDEX NO:					OOM	FOR EXPLAINED LESSON VIGEOS ESTS BY CAPPERT TEACHERS COAD THE PRIME LEARNE APP CARREST CECUM THE PRIME LEARNE APP
Candidate's	Name:					
Candidate's District ID				*	 	

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. Do not write your school or district name anywhere on this paper.
- 2. This paper has two sections: A and B Section A has 20 questions and section B has 12 questions. The paper has 9 printed pages.
- 3. Answer all questions. All the working for both sections A and B must be shown in the spaces provided.
- 4. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
- No calculators are allowed in the examination room.
- 6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
- 7. Do not fill anything in the table indicated "For Examiners' use only", and those boxes inside the question paper.

FOR EXA	MINERS' US	E ONLY
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1-5		
6-10		
11 - 15		
16 - 20		
21 - 22	10.	,
23 - 24		
25 - 26).	
27 - 28	= -	
29 - 30		
31 - 32		100
TOTAL		

APPROVED: Consultant Mathematics Department (PEC)

PUBLISHERS OF:

THE PRIME; SCHEMING FRAME WORKS, PUPILS' WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES AND MORE...

Organised by: PRIME EDUCATIONAL CONSULT @2024 Kampala

Turn Over

	Section A (40 Marks)					
Le reproduced electronicalles	Work out: $\frac{4}{9} + \frac{3}{9}$	2	Write 494 in Roman numerals.			
3 STANKSTANI	Work out: 3 1 2 x 5	4	Given that: Set KUL={ a,b,c,d,e,f,g,h}, (K∩L)' = {a, b, c, d, f, g, h} and L- K = {f, g, h}, List the elements of set K.			
5	Find the next number in the sequence 5, 9, 15, 23, 32,					
6	Using a ruler and a pair of compass on parallel to line MP. M. Z.		e de destrubicalità			
7	Write the number whose standard form	n is	9.15 × 10·2.			

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ω .	Represent the number operation 4 - 6, on the number line below.				
6 WARNING NATION	Solve: 10 - 2a = 4	10	A spoon weighs 250g. How many similar spoons can weigh 20kg?		
11	If set A= {all counting numbers less than 10}, find the probability of picking a prime number at random.	12	Work out: 1 0 0 0 0 two - 1 1 1 two		
	500 m. • 600 m.	•	* *		
13	A trader sells 40 sweets at sh. 20,000. Find the cost of 15 similar sweets.	14	Round off 24.98 to the nearest whole number.		
	k••		nkeunsti		
15	The average age of 4 girls is 12 years. is 83 years. Find their class teacher's	The age.	ir total age and that of class teacher		

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10 10 10 10 10 10 10 10 10 10 10 10 10 1	Construct an angle of 150°.		
17	Among borrowed sh.600,000 from a bank which offers an interest rate of	18	A cyclist covered a distance of 90km in 1hour and 30 minutes. Find the
	4% per month for 6 months. Calculate her simple interest.		speed of the cyclist in km/h.
19.	Given that $a = 3$, $b = 4$, Find the value of $\sqrt{a^2 + b^2}$.	20	The volume of a cylinder whose diameter is 20cm is 9420cm ³ . Find its height (Take π = 3.14)
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	D (CO Marke)						
21 Merentalist	Section B (60 Marks) In a certain P.7 class, 8K pupils like Posho (P) only, 6K pupils like Rice (R) only, 20 pupils like both Posho and Rice while K pupils like none of the two types of food. (a) Use the given information to complete the Venn diagram below.						
neddo	$n(\mathcal{E})=$ (02 marks)						
herm	Posho = Rice =						
WARNING: Not to be reproduced elect	20						
	(b) If the number of pupils who like Posho only is 10 more than those who like Rice only, find the value of K. (02 marks)						
	~;						
	(c) How many pupils like Rice? (01 mark)						
	(05						
22	Work out: $\frac{0.78 - 0.24}{0.14 + 0.04}$ (05 marks)						
	WARNING Nat to be required electronically.						

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23	at sh. 2000 per book and sold the rest at sh. 1800 per book. Calcula profit the trader made.	te the (06 <i>marks</i>)
24	A trailor left Busia at 8:40am and took $2\frac{1}{2}$ hours to reach Jinja moving speed of 80km/hr. It stayed in Jinja for half an hour and then return	
	Busia. (a) Calculate the distance from Busia to Jinja.	(02 marks)
	(b) At what time did the trailor leave Jinja?	(01 mark)
	(c) Calculate the trailor's average speed for the whole journey if it re Busia at 1: 40pm.	eached (03 marks)

WARNING, Not to be reproduced electron		(04 marks)
26	Using a ruler, and a pair of compasses only, construct triangle XYZ i XY= 6cm, XZ = 5 cm and angle YXZ = 120°. (a) Measure angle XYZ.	n which (5marks)
	Study the figure below carefully and use it to answer the question follow. 15cm 20cm Page 6	ns that

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(b) If the area of the shaded part is 108cm2, find the height of the unshaded (03 marks) triangle.

(a) Solve: (8m - 4) - (3m + 2) = 14

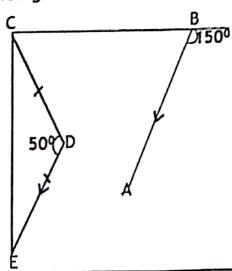
(02 marks)

(b) Simplify: 9b + 5k + 3b - 2k

(02 marks)

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Study the figure below and use it to answer the questions that follow.



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produced electronically (1)	Find the size of angle (a) DEC	(02 marks)
WARNING-Not to be re	(b) BCD	(02 marks)
30	The table below shows marks scored by pupils in a science test. S carefully and use it to answer the questions that follow.	tudy it
	Marks 55 60 70 80 90 No. of pupils 4 5 6 2 3 (a) How many pupils did the test?	(02 marks)
	(b) Find the mean mark.	(03 marks)
31	A parent shared some money to three his children Anita, Joseph and follows. Anitah got 30% of the money, Joseph got 50% of the money rest was given to Joy. (a) What percentage was given to Joy?	Joy as and the . (02 marks)

ctenneslly."	(b) If Joseph got sh 6000 more than Joy, find the total amount parent shared.	of money the (02 marks)
WARNING Not to be reproduced electronically	(c) How much did Anitah get?	(01 mark)
WARNING NOT	(e) How much did Amean Ser.	
	The tank shown below is full of water.	
	120cm 60cm	
	(a) How much water is in the tank in litres?	(02 marks)
	(b) If a tap which powers 12 litres of water per minute is connected	ected to the
	tank, how long does it take to empty the tank?	(02 marks)
		The state of the s
	(c) How much water will remain in the tank after half an hour?	(02 marks)
	,	
	The state of the s	9
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