

## THE PRIME EXAMINATIONS 2024

## P.7 PRE MOCK

Time allowed 2 hours 30 minutes

INDEX NO:			1889 J	FOR L EIPLANED LESSON VEIED HTET'S EY LIFERT TEACHER NI COAD THE PRINTE LEARN IN
Candidate's Na	me:	 	 	 
Candidate's Sig				 
District ID No.	:	 	 	 

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- Do not write your school or district name anywhere on this paper.
- 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.
- 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.
- Unnecessary changes in your work and handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in the table indicated "For Examiners' use only", and those boxes inside the guestion paper.

FOR EXAMINERS' USE ONLY						
QUESTION NUMBER	MARKS ATTAINED	INITIALS				
1 - 5						
6 - 10						
11 - 15						
16 - 20						
21 - 22						
23 - 24						
25 - 26						
27 - 28						
29 - 30						
3 32						
TOTAL	14. 1914					

APPROVED:
Consultant
Mathematics Department (PEC

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

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Kampa

Turn Over



	Section A	(40 )	Marks)
1 Produced observable allega	Work out: $\frac{4}{9} \div \frac{3}{9}$	2	Marks) Write 494 in Roman numerals.
100			
2) SANDANANANANANANANANANANANANANANANANANAN	Work out: 3 1 2 x 5	4	Given that:  Set KuL={ a,b,c,d,e,f,g,h},  (KnL)' = {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,	e.	
6	Using a ruler and a pair of compass of parallel to line MP.  MZ	nly, c	
	op.		
7	Write the number whose standard for	rm is	9.15 × 10 <sup>-2</sup> .
			9.15 × 10 <sup>-2</sup> .

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THE PRIME P7 MATHEMATICS PRE-MOCK EXAMINATIONS 2024.

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8	Represent the number operation 4 -		n the number line below.	
9	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	
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 resolver.	
(-				B
15	The average age of 4 girls is 12 years is 83 years. Find their class teacher's	. The	eir total <b>age</b> and that of class teach	her
			٦	TOTAL MATERIAL

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IVARNING Not to be represented electr	Construct an angle of 150°.		
17	Among borrowed sh.600,000 from a bank which offers an interest rate of 4% per month for 6 months. Calculate her simple interest.	18	A cyclist covered a distance of 90km in 1hour and 30 minutes. Find the 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 $\pi = 3.14$ )

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In a certain P.7 class, 8K pupils like Posho (P) only, 6K pupils like Rice (R) only, 20 pupils like No types of 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. (02 marks)  $n(\mathcal{E})=$ Posho = Rice = 20 K (b) If the number of pupils who like Posho only is 10 more than those who like (02 marks) Rice only, find the value of K. (01 mark) (c) How many pupils like Rice? (05 marks) 22 0.78 - 0.24Work out:

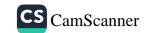
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A shopkeeper bought 200 books at sh. 1500 each. He then sold the 160 books at sh. 2000 at sh. 2000 per book and sold the rest at sh. 1800 per book. Calculate the profit the trader made. (06 marks) 24 A trailor left Busia at 8:40am and took 2-hours to reach Jinja moving at a speed of 80km/hr. It stayed in Jinja for half an hour and then returned to 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 reached Busia at 1: 40pm. (03 marks) D Prime Educational Consult 2024. TEL: 0752999554, 0772038141
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The average of 4 consecutive odd numbers is 24. Find the numbers if the largest is K. (04 marks) Using a ruler, and a pair of compasses only, construct triangle XYZ in which XY = 6 cm, XZ = 5 cm and angle  $YXZ = 120^{\circ}$ . (a) Measure angle XYZ. (5marks) Study the figure below carefully and use it to answer the questions that follow. 15cm 12cm 20cm © Prime Educational Consult 2024. TEL: 0752999554, 0772058141
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(02 marks) (a) Calculate the area of triangle ABC. (b) If the area of the shaded part is 108cm<sup>2</sup>, find the height of the unshaded (03 marks) triangle. (02 marks) 28 (a) Solve: (8m - 4) - (3m + 2) = 14(02 marks) (b) Simplify: 9b + 5k + 3b - 2k29 Study the figure below and use it to answer the questions that follow. D1500 509)D © Prime Educational Consult 2024. TEL: 0752999554, 0772058141 Page | 7 THE PRIME PT MATHEMATICS PRE-MOCK EXAMINATIONS 2024. FOR ACADEMIC EXCELLENCE, ALWAYS USE THE PRIME; SCHEMING FRAMEWORKS, HOLILAY PACKAGES, LEARNING GAMES, LESSON COURSE BOOKS AND PUPILS' WORKBOOKS.

The same	Find the size of a	ingle				(02 marks)
NAME AND ADDRESS OF THE OWNER, WHEN	(b) BCD					(02 marks)
0	The table below carefully and us	shows mark	s scored	by pupil	s in a scien	ce test. Study it
	Marks	55   60		80	90	
	No. of pupils	4 5	6	2	3.	
	(a) How many po	upils did the t	est?			(02 marks)
	(b) Find the mea	an mark.				(03 marks)
31	A parent shared follows. Anitah p rest was given to	got 30% of the	to three he money,	Joseph (	en Anita, J got 50% of I	oseph and Joy as the money and the
	(a) What percen	tage was give	en to Joy?			(02 marks)
						and the state of t
		scational Consult 202	4. TEL: 075299 THEMATICS PR	9554, 07720	58141	Page   8 PTO

(b) If Joseph got sh 6000 more than Joy, find the total amount of parent shared.	f money the (02 marks)
(c) How much did Anitah get?	(01 mark)
32 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 connectant, how long does it take to empty the tank?	cted to the (02 marks)
(c) How much water will remain in the tank after half an hour?	(02 marks)
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