

THE PRIME EXAMINATIONS 2022

P.7 PRE - PLE TRIAL SET VI

MATHEMATICS (Abridged Curriculum)

Time allowed 2 hours 30 minutes

Randor	n No.	Personal No.	F. OF	Top up your classwork with
INDEX NO.	, v		8-100	Prime Learn www.prime-tearn.com
Candidate's Name:	,			
Candidate's Signature:		······	· · · · · · · · · · · · · · · · · · ·	
School Random No	······································			•
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.
- 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.
- 5. 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	EONLY
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5	V	* ·
6 - 10	1,1	
11 - 15	. 1	> 1
16 - 20	14.70	
21 - 22		
23 - 24		
25 - 26	₹ CUL	``
27 - 28		
29 - 30		
31 - 32		,
TOTAL		

APPROVED: Consultant Mathematics Department (PEC

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Turn Over

	Section A (40 M	larks)
	24 + 8	2	Write in figures "fort
1	Workout: 24 ÷ 8	4	Write in figures, "forty six thousand sixty one"
		~	13
			7.
		1	
	2 ¹ . 3		
	Given that set $H = \{2, 3, 5, 7, 11\}$	4	Find the mean of $(x + 4)$, 21,2x and
Τ.	Given that set $II = \{2, 0, 0, 1, 1, 2, 1, 2, 3, 4, 6, 12\}$. Show and set $J = \{1, 2, 3, 4, 6, 12\}$. Show and set $J = \{1, 2, 3, 4, 6, 12\}$.		(x + 7).
	and set $J = \{1, 2, 3, 4, 0, 12\}$. Show the elements of the two sets on		
	the elements of the two seasons		· · · · · · · · · · · · · · · · · · ·
	Venn diagram.		
	H		
		_	Cimalia
+	The clock face below shows time in	6.	Simplify: $3(2 - y) + 6y$.
- 1	The same		
	the evening. Write the time shown in 24-hour		
	Write the tizza	٠.,	***
	clock.		
l l	10 4 2		
1	(9) 3		
	8 4		4
	7 6 5	+ 10	fine the second of the second
		_	Pro
+	1 litres of	8	Find the volume of the triangular
	A motorcycle consumes $\frac{1}{4}$ litres of		prism below.
	petrol for every 6km . How many		
ŀi	litres of petrol can it use to cover		
.	48km?	-	6cm
E.		,	
			12cm
			8cm
	•		
			56 Fig. 1
			, in the second
- 1		1	17.5

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	Licing a protractor, a ruler and a sna	irp pei	ncil. Draw an angle of 600:
9	tolow:	,	ncil. Draw an angle of 600 in the space
2	below.		
1	and the Landson		T
	Light by the control of the control		. ,
	,		
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		, , ,	
	i i	·	
		111	- engisologia (mansa inni
10	Find the next number in the	11	Workout: $(75 \times 38) + (25 \times 38)$
10	conjence.	- d	(20 x 30)
	2, 3, 7, 16, 32,		t. See
	2,0,1,20,0=,	,	
	, , , , , , , , , , , , , , , , , , , ,		
		ia "	Conice In the control of the control
			P
			V - 1
	10.17.51.20.31.01.1		•
12	Workout: +3 + -7 on the number lin	ie pėjo	is just asse sh. A5000 by Lugger w.
	7		
		<u> </u>	
	4 3 2 1 0 1	+2	+3 +4 +5 +6
	4 5 2 1 0 1		+3 +4 +5 +6
1			
A			
	* * * * * * * * * * * * * * * * * * * *	a A ^	
13	Round off 6789 to the nearest	14	Atidim during C all 1
1173	hundreds.	iti ne:	Ajidiru drove for $1\frac{1}{2}$ hrs from town R
			to town T. Town R is 87km from
		, y	town T. At what speed was Ajidiru
			travelling?
		, .	Gavetting:
		11	
1	**	'	
		7	
		2:	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

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Draw tallies to represent 23 pupils. Given the exchange rates below. KSh1 - Ush.36 US\$1 = Ush.3500.Convert USD 180 to Kenya shillings. Find the value of q in degrees. 125^{0} 140° Solve: $3n + 2 \le 14$ Increase sh.45000 by $12\frac{1}{3}\%$. Cups of 500ml were used to fill a ten litre jerrycan with milk. Find the number of full cups which were used.

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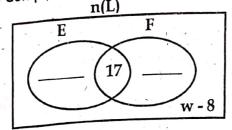
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Section B (60 Marks)

In a certain class, all pupils speak Luganda. Given that (2w + 3) pupils speak In a certain class, Ligardian (E) only, 28 pupils speak Luganda and French. (F) only, 17 Luganda and French. (F speak all the three languages while (w - 8) pupils speak Luganda only. (a) Complete the Venn diagram below.

(2marks)



(b) If 60 pupils speak Luganda and English, find the value of w.

(2marks)

(c) Find the total number of pupils in the class.

(İmark)

(a) Express 0.2666...... as a vulgar fraction.

(2marks)

(b) Simplify: $\frac{3}{4} \times \frac{4}{9} \div \frac{4}{5} + 1\frac{1}{2}$

(3marks)

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23 11110	the sum of the value of 2 and the value of 3 in the number $1302_{\rm fd}$	our•
J 1		(3marks)
11, 112		A. 11. 11. 1
A T STATE		4.
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1		•
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/ (L) V	Vorkout: 23five × 14five	(2marks)
(D) V	YOUNG	(======================================
,		
2min (s)		
		т.
,		
24 The	rectangular sheet of metal below was to be curved into a cylindr	ical water
tank		
(Amin)	70cm	State in
1 1		
	220cm	*
(2) F		(2marks)
	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	(2marks)
(a) F	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	(2marks)
L	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	(2marks)
L	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	(2marks)
L	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	(2marks)
(2: mm' s)	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(2: mm' s)	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(z) mar	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(2: mm' s)	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(2: mm' s)	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(2: mm' s)	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(z) mar	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	
(transcs)	Find the diameter of the cylindrical tank. (Take $\pi = \frac{22}{7}$)	? (3marks

5	A pupil bought the following items [3kg of sugar at sl. 4000 a kg.]	
	500g of rice at smood for ag. 5 kg of wheat flour at sh.7200 for ea	very 2kg.
	(a) How much money did the pupil p	pay altogether?
	(a) How much makes	(4marks)
	. ,	· · · · · · · · · · · · · · · · · · ·
	i salanca halanca	of all 2000 to
	(b) If the pupil was given a batance of	of ${ m sh.2500}$, how much money did the pupil
	have at first?	(1mark)
		•
6	(a) Using a ruler and a pair of comp	asses only, construct a parallelogram WXYZ
U	where \overline{wx} = 8cm, angle WXY = 45	\overline{w} and \overline{wz} = 5cm. (4marks)
	Wilche	(Intaks)
	The work Mala a most in	r National de la companyación de la c
	ised sapis Augui who ame is a feet of	green and the second
		1107, 108
	anyle r	to leave the many transition of the size of
		and the second s
	(b) Measure the length of diagonal V	NY. (1mark)
	(b) Measure the length of diagonal r	
	(b) Weasure the length of diagonal v	No. 2 April 1
	(b) Weasure the length of diagonal v	
	(b) Weasure the length of diagonal v	
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ı	(b) Weasure the length of diagonal v	X X X
1	(b) Weasure the length of diagonal v	
	(b) Weasure the length of diagonal v	X
	(b) Weasure the length of diagonal v	

The table below shows the masse f boys recorded during the first week of the term. 45 55 52 Mass(kg) 48 2 No. of boys 1 (a) If their mean mass is 49kg, find x. (3marks)(b) Find the median mass. (2marks) (a) The interior angle sum of a regular polygon is 540° . How many sides has the (3marks) polygon? (2marks) (b) In the figure below, find the size of angle x. 100° 120° © Prime Educational Consult 2022. TEL: 0393 283600, 0752 999554, 0772 097028, 0704 924083

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29	Kana, Sande and Juma shared books in the ration 4:5:6 respectively. and Sande both got 36 books, and Sande both got they share altogether?	If Kana
	and Sande both got 30 books, (a) how many books did they share altogether?	(3marks)
		* *
	(b) Find the number of books Juma got.	(2marks)
		,•
		1
	Madra is 56 years old and his son is 8 years old.	
30	(a) After how many years will Madra be thrice as old as his son?	(3marks)
		,
1		-f
	(b) How old will the son be then?	(2marks)
	(b) How old will also	
		,
31	The volume of the cuboid below is 480cm ³ .	
	10cm	
*	8cm	
	(a) Find the width of the cuboid.	(3marks)
	•	

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-	(b) Work out the total surface area of the cuboid.	(2marks)
		1
		•
	travelling at a steady speed of 60km/hr took 3 hours to travel	
32	A taxi travelling at a steady speed of 60km/hr took 3 hours to travel a A to town B. It rested for 30minutes at B and returned to town A at a	speed of
	72km/hr. Calculate the average speed of the taxi for the whole journ	ey.
		(5marks)
2.4	na sika	
		,

Hidden Tip For Excellence in Mathematics.

- Passionately engage in study groups especially for those areas/concepts that are challenging to you.

- During these discussions, give and as well listen to other members' views to get the most appropriate answers.

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