## PROAD EXAMINATIONS® P.7 MATHEMATICS EXAMINATION TRIAL SET II TERM II 2024

Time allowed: 2 hours 30 minutes.	1. A.M. 7
Random No. Personal No.	
Pupil's Name:	
School Name:	
District Name:	
Read the following instructions carefully:	FOR EXAMINER'S USE ONLY
<ol> <li>This paper is made up of two sections: A and B.</li> <li>Section A has 20 questions (40 Marks).</li> </ol>	PAGES MARKS SIGN
3. Section B has 12 questions (60 Marks).	Page 2
4. Answer ALL questions in both sections A and B.	Page 3
5. All answers must be written in the space provided in	Page 4
blue or black ball point pens and ink. Only diagrams should be done in pencil.	Page 5
6. Unnecessary crossing of answers will lead to loss of marks.	Page 6
7. Any handwriting, which cannot be easily read, may lead to	Page 7
loss of marks.  8. Do <b>not</b> fill anything in the boxes indicated for	Page 8
Examiners' use only.	TOTAL
Teacher's comment to the learner	Approved by:
	Team Head Mathematics Dept.

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	SECTION .A. (	40 M	ARKS) that set K = {m, o, d, e}
1.	Divide: 12 ÷ 3	2.	Given that set $K = \{m, o, d, e\}$ $L = \{d, o, m, e\}$
	TO BE RESTRICTED TO STATE OF THE DESCRIPTION OF THE PERSON	1.	
	O CAMENIA MARKATI	1	Set K is to set [
		d	Write 24 in Roman numerals.
3.	Show "twenty minutes to 12" on the clockface below.	4.	Write 24 III No.
_	10 12 1 10 2 10 3 10 5		
		-	
5.	Write the sum of the next numbers in the sequence below in words.	6.	Round off 36.296 to the nearest tenths.
	21, 23, 26, 31, 38,,		
	10 MA		
	<b>经济的</b> 100 年 100 年 110 日		# Philipped At March
7.	Given that #	8.	A sailor turned anti-clockwise through
	Given that represents 6 apples		an angle of 3150 from West. Find the sailor's new direction.
	and represents 10 mangoes,		saitor's new direction.
	draw pictures to represent 20 mangoes		i sanan esta esta esta esta esta esta esta esta
	and 21 apples.		
	<i>*</i>		
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9.	Simplify; +4 - +9	10.	Shade (M⊠ N)¹
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11.	The area of a rectangular compound is $100\text{m}^2$ . If its width is $6\frac{1}{4}$ metres. Find the length of the compound.	12.	A driver drove a distance of 72km in 2hours. At what speed in metres per second was the driver driving?
13.	Write the base two number represented below.	14.	Find the value of p in; 4 + p = 7
		1	
		2	
15.	Work out the area of a circle whose radius is 20cm. (Take 🛭 as 3.14)	16.	Using a ruler, a pencil and a pair of compasses only, construct an angle of 30°.
	g to the second	155	
4 4			
17.	Jamada paid sh. 7500 for a shirt after being offered a discount of sh. 1500. Calculate his percentage discount.	18.	Mark's age is a third of that of Peter. If their total age is 36 years, how old is Peter?
e V = l <sub>att</sub>			
247	50 Alg.	-	
			1 0772-864523 Page 3 of 8

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19.	A shop attendant sold a smart phone at sh.325,000 making a profit of sh.40,000. Calculate the cost price of the smart phone.	20.	Find the size of angle marked k in degrees.
	SECTION .	B. (60	O MARKS)
21.	The diagrams below represents two tins	of dif	s
		(a)	Which container holds less water?
	Tin P 15 litres 500ml		
(p)	How many millilitres of water can fill tin P completely?	(c)	If tin K is used to fill water in tin P, how many tins of size K can fill tin P?
Tr.			(05 Marks)
22.	(a) Given that $n(B)' = 36$ , $n(B \text{ only}) = 12$	and n	(A) = 3p, use the information to
	complete the venn diagram below.	(L)	Find the value of p
,	$\square = \square$	(b)	Find the value of p.
(c)	Find $n(\Sigma)$ .		
			(06 Marks)

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-4

23.	(a) Work out 3 + 5 = (fi	nite 7)	(b)	If today is Monday, what day of the week will it be 9 days from now?					
				1 000					
						20			
						(04 Marks)			
24.	Compare the following using <	<, > or =.							
	$\frac{2}{3}$ $\frac{3}{5}$	0.25		$-\frac{1}{4}$	16½% _	0.4			
					Į.				
						(06 Marks)			
25.	The interior angle of a regular	polygon is	140	).					
(a)	Name the polygon.		(b)	Find its inter	ior angle si	ım.			
						7			
	\$			-		10 E			
	W.					-201			
						(05 Marks)			
26.	Three companies W, X and Y w	vere invite	d for	a one day wor	kshop abou	it prevention			
	of COVID-19 at a certain hotel workers respectively. If a wait	. Companie	es ser	it 40 workers, ual number of	chairs in d	lifferent rooms			
	to accommodate all the worke		eu eq	dat number of	Chan's in c	interest rooms			
(a)	find the number of chairs orga		(b)	how many roo	oms did the	workers of			
(-,	the waiter in each room.			company W o	ccupy?				
						Ti .			
						_, i			
						10 y			
		10							
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						(04 Marks)			

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27.	The table below represents the marks ob		I by different pupils in a test.
21.	The table below represents the marks of	taine	Find the modal mark.
		(a)	Find the moss
	Marks 65 80 75 95 50		
	No. of pupils 3 6 5 2 4		
	rior or papies 5 0 5 2		
			,
	other V. C.		
		* .	
			How many pupils scored above the
(b)	Work out the range of the marks.	(c)	How many pupils see an all the
	, 2 <sub>0</sub>		average mark?
			1
villand.		١.	
1			Same And the second sec
		- 2	
			(0.7.1)
			(05 Marks)
28.	Using a ruler, a pencil and a protractor,	cons	truct a square of side 4.5cm.
20.	obing a rater, a period and a productive		
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			*
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	the second of th		- 15, W 7
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	The state of the s	* 1	
			(04 Marks)
	liff-mark su	rrong	
29.	The table below shows how different cu	falla	ies are bought and sold in a bank. Study
	and use it to answer the questions that	TOLLOV	V.
			How much money in Uganda shillings
	Currency Buy (Ugsh) Sell (Ugsh)	can	one get from 4000 Kenya shillings?
	US\$ 1 3650 3720	9	D. Committee of the com
	Ksh 1 24.8 25	-	
		¥3.	
	* 1 to 1	1	· · · · · · · · · · · · · · · · · · ·
			ž.
			The state of the s

(b)	A trader exchanged 350 US	dollars to Ke	nya sl	hillings. How much money in Kenya
	shillings did he get from th	ie bank?		
	- 25			
				(05 Marks
30.	Two to			
50.	while the connected to	a water tank	01 10	100 litres. Tap N fills the tank in 4 hours
(-)	while tap Q fills the tank ii	n 2 hours. If t	hey a	re opened at the same time,
(a)	how long can both taps tak	ce to fill the	(b)	how many litres of water can both
	tank to full capacity?		` ′	taps fill in the tank in one hour?
	S. Spread			
	(a)			All
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	the second of the second			And the second of the second second
		100		
			with the same of t	The second secon
				(05 Marks
31.	The figure below shows a r	rectangular ta	nk co	ntaining some water. Study it carefully
51.	and use it to answer the qu	uections that	follow	,
	and use it to answer the qu	uestions that		
			(a)	How many litres of water are in the tank?
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43.															
(b)	If the water 160000cm <sup>2</sup> ,	r in th	e tar	k is p	ooured eight	d into of the	anoth	ner red er.	ctang	ular ta	ank w	hose	base	area	is
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-									the						
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32.	Town E and 50km in 1½ and later co	ours t	pefor	e bre	aking	down	. It st	ayed	for 30	) minເ	::00p ites v	.m. a vhile	and co	overed	d
	(a) Use the	above	info	rmat	ion to	draw	a gra	ph sh	owing	the l	orry'	s jou	rney.		
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	(b) Calcula	te the	spe	ed of	the lo	orry at	ter th	e in ho ne rep	air.						

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