

THE PRIME EXAMINATIONS 2023

PRIMARY SIX END OF TERM II MATHEMATICS

Time allocated 2 hours 30 minutes



Name:			
Signature:			
School:			
SCHOOL			
District Name:			
READ THE FOLLOWING INSTRUCTIONS CAREFULLY	FOR EXA	MINERS' US	E ONLY
1. This paper has two sections: A and B. Section A has 20	QUESTION NUMBER	MARKS ATTAINED	INITIALS
questions (40 Marks) and Section B has 12 questions.	1-5		
(60 Marks)	6-10.	- 4 - 7 192	
2. Answer ALL questions. All the working for both sections	11 - 15		4
A and B must be shown in the spaces provided.	16 - 20		1800
Charles black ball	21 - 22	4 3500	
3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than on	23 - 24	1 3. 1 3	
graphs and diagrams will not be marked.	25 - 26	S. B	

cannot be read easily may lead to loss of marks. 6. Do not fill anything in the table indicated

"FOR EXAMINERS' USE ONLY"

4. No calculators are allowed in the examination room:

5. Unnecessary changes in your work and handwriting that

APPROVED Consultant Mathematics Department (PEC)

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THE PRIME; SCHEMING FRAME WORKS, PUPIL'S WOLKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES LEARNING GAMES. REVISION BOOKS, PLE ANALYSIS REPORTS AND MANY MORE.

Turn Over

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27 - 28

29 - 30

31 - 32

TOTAL



Section A (40 Marks) Find the sum of $\frac{1}{3}$ and $\frac{1}{4}$ Divide: 36 ÷ 6 5kg of sugar cost sh.15,000. How Find the next two numbers in the much money will one pay for 3kg of sequence below. 25, 16, 9, ____ sugar? In a basket, there are 15 blue pens 5 Solve: 11x = 1216 and 5 red pens. If one pen is picked at random, what is the probability of picking a blue pen? and the area of the triangle below. Round off 396 to the nearest tens. 8 Write in words 22,303.

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10.	What is the complement of 49°?	11	Work out: -8 + -2
		16 4	hara are 35 cows, how many animals
12	20% of the animals on a farm are cown are on the farm?	S. IT U	there are 35 cows, how many animals
13	Find the value of a in degrees.		
	5 _a 0		
	/3a0 a0		
4.4	754	15	Write 68 in Roman numerals.
14	Describe the shaded region.		
16	A motorist covered a distance of	17	In a class of 60 pupils, 25 are girls and the rest are boys, find the ratio
	120km in $1\frac{1}{2}$ hours. What was his		of boys to girls.
	speed in km/h?		
		-	
18	Find the square root of $1\frac{11}{25}$	19	The cost of 1 Ksh is Ugsh 28. How
	23		much Ugandan shillings will Joseph get #rom Ksh 350?
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_	- Frament How many Dags of	
20	A truck carries 7 tonnes of cement. How many bags of cement each	
	50kg can the truck carry?	
		1
	Section B (60 Marks)	
21	Given that X= (all prime numbers between 1 and 15) and	
21	Y = [all odd numbers between 2 and 15]	
-	(a) List a set of members of;	-
	(i) set X.	(01 mark)
	(i) sec x.	
	(ii) Set Y	(01 mark)
	(II) Set 1	
	(b) List a set of members of (X∩Y)	(02 marks)
	(2) List a set of Members of (XIV2)	(==
-	(c) Find n(XUY)	(02 marks)
		(02 marks)
1		1000
22	At a clinic, 10 children had the following masses in kg;	
-	9, 10, 11, 10, 12, 7, 8, 10, 10, 11.	
	(a) Find (i) modal mass	
		(02 marks)
-	(ii) median mass	
		(02 marks)
		(02)/////////
	(iii) mean mass	
	, muss	ina
		(02 marks)
-		
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	O Prime Educational Consult 2023. TEL: 0393 283600, 0752 999554, 0772 097028, 0704 924083 THE PRIME P-6 MATHEMATICS-END OF TERM II EXAMINATIONS 2023. LESSON COURSE BOOKS AND FRAMEWORKS, HOLIDAY DAGGE	
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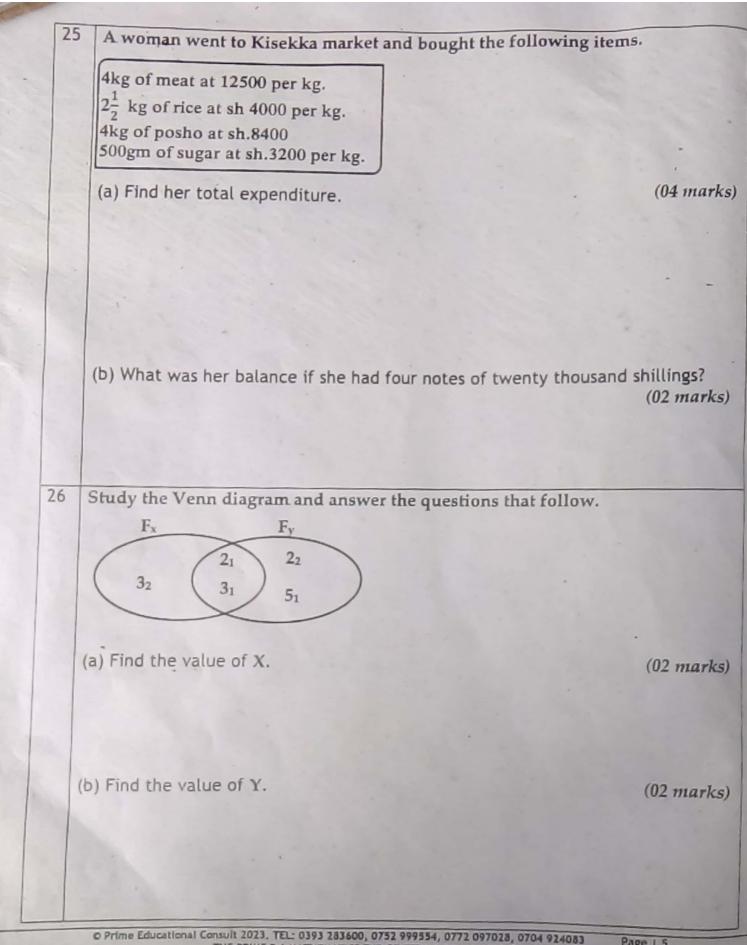
23	Using a pair of compasses, aruler and a sharp pencil, only, cons	truct a triangle
	ABC with side AB = 4cm, BC = 6cm and AC = 8cm.	(04 marks)
		100 100 100
		(04 -1-)
	(b) Measure angle ABC.	(01 mark)
24	A trader borrowed sh. 400,000 from a bank at an interest rate of	f 5% per year.
	(a) How much interest must he pay after 6 months?	(02 marks)
		2734000
	(b) What amount of money will he pay altogether?	(02 marks)
	(b) What amount of money will he pay altogether?	(02 marks)
	(b) What amount of money will he pay altogether?	(02 marks)
	(b) What amount of money will he pay altogether?	(02 marks)
	(b) What amount of money will he pay altogether?	(02 marks)
	4.8 x 0.3	
		(02 marks)
	(c) Workout: 4.8 x 0.3	
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(c) Find the L.C.M of X and Y.

(02 marks)

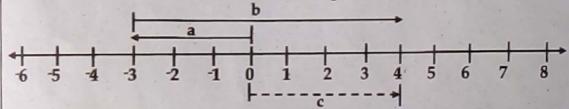
27 James had bank notes numbered from AP0043300 to AP0043399.

(a) How many bank notes does Jane have?

(02 marks)

(b) If each note is worth 10,000 shillings in value, how much money does Jane have altogether? (02 marks)

28 Use the number line below to answer the questions about it.



(a) Write down the integers represented by the arrows.

(01 mark each)

(b) Write down the mathematical statement shown on the above number line.
(02 marks)

29	Workout:	
	(a) Hrs	Mi
		4 -

(02 marks each)

(a) Hrs Min 3 15 +1 48 (b) Weeks Days 5 1 -3 6

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0	What is the difference between the value of 6 and the value of 4 in the numerate (03 marks)
1	248097
1	(a) A bus which travels at a speed of 80km/hr leaves Soroti at 7:30am and arrives in Kampala at 1:30pm. What distance did the bus cover from Soroti to (03 marks) Kampala?
	(01 mark,
	(b) Express 10:30am in 24 hour clock system.
•	In a church service, there were 30% more males than females. If there were 70
32	In a church service, there were 30% more males that the service who females who attended the service, calculate the total number of people who (05 marks)
	females who attended the service, carearate (05 marks)
	attended the church service.

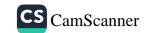
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P.6 MATHEMATICS MARKING GUIDE

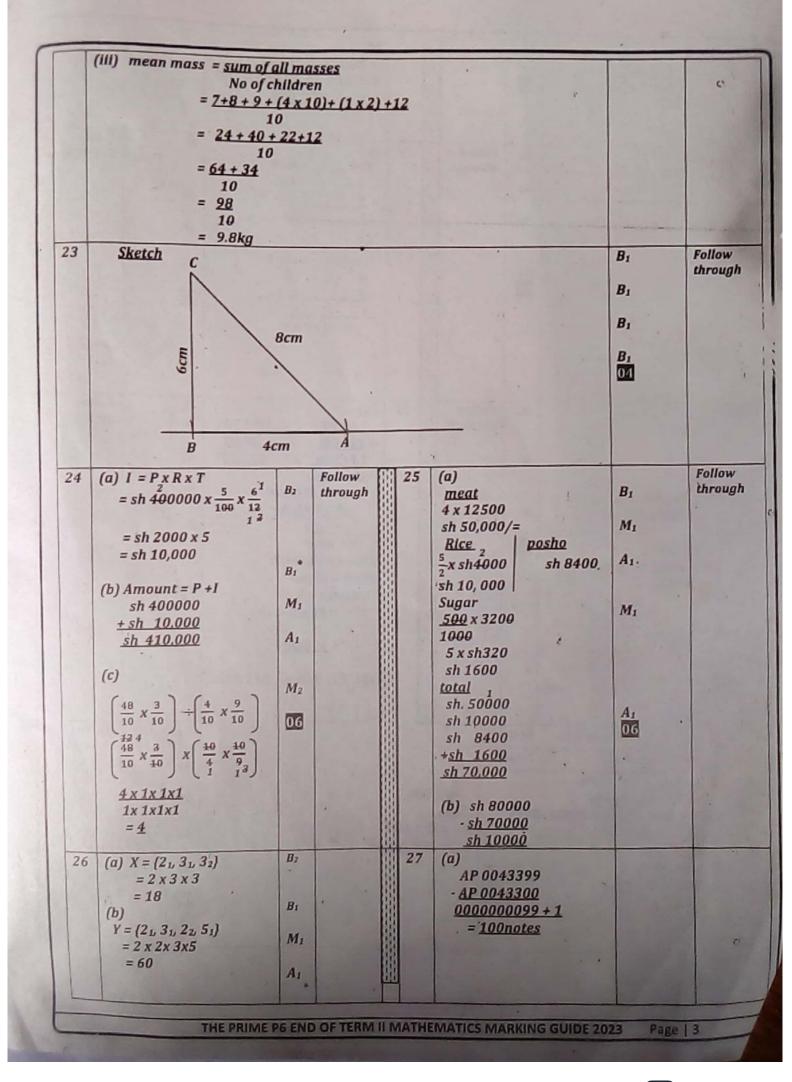
Г	NO SOLUTION MA COMME I'LL NO CONTROL								
		MA RKS	COMME	1111	NO	SOLUTION	MARKS	COMMEN	
	$ \begin{array}{c c} & 36 \\ & 0 \\ \hline & 36 \\ \hline & 36 \\ \hline & 00 \\ 36 \div 6 = 6 \end{array} $	Bz	Follow through		2	$-\frac{1}{3} + \frac{1}{4} = \frac{4+3}{12}$ $= \frac{7}{12}$	B ₂	Follow through	
5	25, 16, 9, 4, 1	B ₂	Follow through		4	3 15000 = sh.3000 51 sh 3000 x 3 sh. 9000	M ₁	Follow through	
	$\frac{11}{11}x = \frac{121}{11}$ $X = 11$	B ₁	Follow through		6	Total no. of pens 15blue pens + 5 red pens = 20 pens Prob = desired chance total no. of items = 15 20	Bz	For working	
7	$Area = \frac{1}{2}bh$ $\frac{1}{2} \times 40cm \times 6cm$ $= 30cm^2$	B2	Follow through		8	$ \begin{array}{c cccccccccccccccccccccccccccccccc$	B ₂	Follow through	
9	thousands units 22 303 Twenty two thousand three hundred three.	B ₂	Follow through		.10	Let the compl < be p P + 49° = 90° P + 49° - 49° = 90° - 49° P = 41°	M ₁	Follow through	
11	·8 - (+2) ·8 - 2 ·10	B ₂	Follow through		12	35 ÷ <u>20</u> 100 35 × <u>100</u> ⁵ , 20 35 × 5 = 175 animals	B ₂	Follow through	
13	$\frac{9a}{9a} = \frac{180}{9}^{20}$	M _I	Follow through		14	(R∩S)¹	M _I	Follow through	
				4				130	

THE PRIME P6 END OF TERM II MATHEMATICS MARKING GUIDE 2023





Marie Control							122	Park and a second
15	68 = 60 + 8	B ₁	Follow	188	16	Speed = D	Mı	Follow
1	LX VIII		throug	I III		T	Aı	through
	= LXVIII	Bı	h	H		$= 120km \div 1\frac{1}{2}h$		
			1 3 3 1 1			$= 120km + \frac{3}{2}h$		3003
			1			$\frac{120}{120}$ km x + $\frac{2}{3}$		
1.		1		M		= 80km/h		
17	Power airle	Mı	Follow	H	18		B2	Follow
17	Boys : girls 60 - 25		through	×	10	$\sqrt{1\frac{36}{25}} = \sqrt{\frac{36}{25}}$		through
	35 boys			M		(2) (2)		
	Ratio = boys	Aı		H	16.3	$= \sqrt{2^2 + 3^2}$		
	Girls			×		. 5ª		
	= <u>35</u> 25			M	29	= 2 x 3		
	= Z			8		5	1744	
	5	- 1	Tax III	W		= \frac{6}{5}		
	Ratio = 7 : 5			H			The same of	
			10.000	M		$=1\frac{1}{5}$		
			- 40	器		CHARLES IN THE	B ₂	Follow
19		B2	Follow	H	20	1 tonne = 1000kg	2.	through
	sh 350 x 28		through	綴		7 tonnes = (7 x 1000)kg = 7000kg		
	sh 9800		1	H		1 bag of cement = 50kg		
				H		$50kg = \frac{1}{50} x \frac{140}{7000}$		1 2
				H		501	1 131-19	
			Land I	H		= 140 bags of cement		
			SECTION	ON	B (60	marks)		
21	a)						Bı	Follow
	(1) $set X = \{2, 3, 5, 7, 11, 13, 13, 13, 13, 13, 13, 13, 13, 13$	3)					B ₁	through
	(II) set Y = (3, 5, 7, 9, 11, 1:	3)					M ₁	
	a) Way - (2 5 7 11 12	1					B ₁	
	(b) $(X \cap Y) = (3, 5, 7, 11, 13)$,					B_1 M_1	
	(c) $n(X \cup Y) = \{2, 3, 5, 7, 9, 5, 7, 9, 5, 7, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9,$	11, 13)		1.		141	1000
	$n(X \cup Y) = 7$						06	
	1.10	71.6					B ₂	Follow
22	(a)(l) mass frequence 9 1	<i>y</i>						through
	10 4						B ₁	
	11 2					The second second	14	1
V	7 1						M_1	
	8 1 1						A_1	1000
2	modal mass = 10kg							
100	(II) median						05	1 100
1	=7, 8, 9, 10, 10, 10,	, 10, 1	1, 11, 12					
	= <u>10 +10</u>						A Brief	1
	2010						113-3-3	1
	20 ¹⁰					A STATE OF THE PARTY OF THE PAR		122
-	= 10kg							1-1-1
				-				
-		FAIR	05 75004 11	80	ATHER	MATICS MARKING GUIDE 202		



1	(c)	M ₂	[1]	-	(b)		-
	LCM = { 21, 22, 31, 32, 51}	500			1 note = sh 10000	Cincipe se	
	$= 2 \times 2 \times 3 \times 3 \times 5$ $= 180$	06			100 nts= sh 10,000 x 100 sh = 1,000,000		
	- 100			-			
			7-11	20	(*)	B_1	Follow
28	(a) (i) $a = -3$	ALC: A	follow hrough	29	(a) Hrs Min	DI	through
	(ii) b = +7 (iii) c = +4	B ₁			3 15		
					+ 1 48	A_1	
	(b) $a + b = c/3 + 7 = 4$	B_1			5 03	M_1	
	The state of the s		13		(b)	101	
100		A ₁			Weeks days	A ₁	
		A ₁			-3 6	04	
		×	111		1 2	04	
			. 1		1+7 = 8		-
1		1			S. A. S. S.	NE COL	
					1	18	
30		B_1 B_2	Follow	31	(a) ,	B_1	Follow
30	24869		hrough	31	1:30 / 7:30	DI	through
					+ 12:00 / + 00:00		
	6 x10 = 60	B ₁			13:30h / 07:30	A ₁	1 3 0 3 1
	4 x1000 = 4000			1	duration ' 13 : 30 hour	MI	100 30 30
	Difference	B ₁			- 07: 30 hour	1721	
		- 4/1/2			6:00	A_I	
	34000	03			= 6 hour		
	<u>- 60</u> 3940			1	Speed = 80km/h Time = 6hour	A_I	
				1	Distance = S x T	05	
	,				= <u>80km</u> x 6h		
					A - 490km		
					= <u>480km</u>		
	1				(b) 10:30am - 10 30 hrs		
32	Males Females	Total %	6	<u> </u>		D	F-11
	K+30% K	100%	0			B ₁	Follow through
1	k + 30% + k = 100%	100%				A ₁	and and
	2k + 30% + k = 100% 2k + 30% = 100%		2 70 x 1	00			100000
	2k + 30% - 30% = 100% -	30%	35,			M ₁	
100	<u>2k</u> = <u>70</u> %		= 2	x 100		A ₁	
	2 2 · · · · · · · · · · · · · · · · · ·		= 20	00 peo	ple	***	
1	35% = 70		9 500000			A ₁	13,000
1000	1% = <u>70</u>		19 10				
13	35					05	
			The state of the s				
-				1890			1