

THE PRIME EXAMINATIONS 2023

P.7 MOCK

MATHEMATICS

Time allowed 2 hours 15 minutes

and the same	Time allow	ed 2 hours 15 mil	WELL EUPLAND TEACHERS
INDEX NO:	Random No.	Personal No.	DOWNLOAD THE PREME LEADIN APP
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Candidate's Sc	hool:		
District Name:)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. The paper is made up of two sections: A and B. Sections A has 20 questions (40 Marks) Section B has 12 questions (60 Marks)
- 2. Answer ALL questions. All answers in both sections A and B must be written in the spaces provided.
- 3. All answers must be written using blue or black ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
- 4. Unnecessary changes of work may lead to loss of marks.
- No calculators are allowed in the examination room.
- 6. Do not fill anything in the table indicated "FOR EXAMINERS' USE ONLY", and the boxes inside the question.

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QUESTION NUMBER	MARKS ATTAINED	INITIALS
11-5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED:

AIR-Consultant Mathematics Department (PEC)

PUBLISHERS OF:-

OF THURST SCAFFAING FRAME WORKS LANDING MOLINDONS DESCONGOVESE BOOKS HOLIDAY PAUKAGES LIFARNING GAMES AND MORE .. ?

Organised by: PRIME EDUCATIONAL CONSULT @2023

Kampala

Turn Over



	Section A	40 N	Tarks)
1	Workout: 7042	2	Write 71090 in words.
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			11.7
	,		
1	San Bartha B.		
	572 JUZ		
			:/3
3	Find the sum of all triangular	4.	Find the number of elements in a set
	numbers less than 12.		with 16 subsets.
	manipers tess citati 12.		
			1657
-1			
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	* 1		l ,
16437	Maria Sangan		
	The state of the s	1. 1	
5	Write 0.00503 in standard form.	6.	A school concert started at 9:30am
	The state of the s		and ended at 4:00pm. How long did
	1 =	-	the sensest lest?
			the concert last?
		1	
1	T .		
			' '
			1
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7	Using a ruler and a pair of compasse	25, C	onstruct an angle of 1350
	1 22		
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	and a contract of the contract		
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4075	and the second s		•
	•		,* ,
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1 '	- L		•
			•
8	Given that $n = 3$, $m = -2$ and $y = 8$,	10	(C) 4 P()
	6-14-3, m2 and y = 8,	9	Change 4.56 tonnes to kilogrammes
	find the value of mn		
	-v+m		
1	A TOTAL TOTAL TOTAL		
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			" production of the production of the second
			A STANDAY OF THE STAN
1	, ,		

O Prime Educational Consult 2023, TEL: 0393-203600, 0752-999554, 0772-097028, 0704-924083 Page | 1

THE PRIME PY MATHEMATICS MOCK EXAMINATIONS 2023.

FOR ACADEMIC EXCELLENCE, ALWAYS USE THE PRIME; SCHEMING FRAMEWORKS, HOLIDAY PACKAGES, LEARNING GAMES,

LESSON COURSE BOOKS AND PUPILS! WORKDOOKS.

YOU WARREN TO THE PRIME OF CONTINUATION OF CONTINUATI



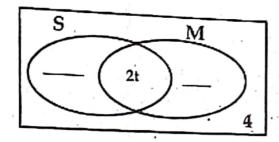
. hlue and red	11	If today is Saturday. What day of the
In a box there are blue and red	'	week will it be 50 days from now?
pens. The probability of picking a blue pen from the box at random is		
blue pen from the box at random is		
$\frac{5}{7}$. If there are 10 red pens in the	1	1.0
box, find the total number of pens in		
the box.		
	1 .	2 46 + 7 23
John and Peter were told to report	13	Work out: 18.43 - 9.16 + 7.23
to the police station after 15 days	1. 1	
and 16 days respectively. After how		
many days will they report to the		
police station together again?	1	
police station together against		
	1	
		Y
	1	
	1-	10. 1.1. 0. 1.1
Hadijjah bought $1\frac{1}{2}$ kg of rice at	15	
sh.1800 for every a half kg. Find		value of x in degrees.
Sn. 1800 for every a flat kg. Tind	1	\triangle
how much Peter spent altogether.		\sqrt{x}
	40.0	/ *
V		
		740
		Find x
	·	
	3	

ŕ			The second secon
7			If today is Saturday. What day of the
	In a box there are blue and red	11	week will it be 50 days from now?
10	The probability of DICKING a		week will it be 30 days
	blue pen from the box at random is		
	blue pen from the boy at random is		
1 1	$\frac{5}{2}$.If there are 10 red pens in the		
1 .	box, find the total number of pens in		
	box, find the total number of pens in		
1 . 1	the box.		
		.	
		1	
,		1 1	
1			
			7.23
	- t-life report	13	Work out: 18.43 - 9.16 + 7.23
12	John and Peter were told to report	12	1100
	to the police station after 15 days	1.7	
1 . 1	and 16 days respectively. After now	1	
	many days will they report to the		
1. 1	many days will they report to		
1 11	police station together again?		
1. 1			
SP 1			
1. 1/			
· /			in the second of
/4			
		15	Study the figure below and find time
14 H	adijjah bought $1\frac{1}{2}$ kg of rice at	1.13	1 Code dograph
	delijjan soog 2		value of x in degrees.
S	h. 1800 for every a half kg. Find	1.0	Δ
. h	ow much Peter spent altogether.	100	\sqrt{x}
17/-			/ <u>X</u>
. 111			
. 17			/ > >
. 17/			
- V .		Li v.	λ
			740/
1		1.	
			Find x
. 7			111147
151		1	
1		, ,	
		1.	
		1 .	
,		1	

	16	A motorist covers 150km in 2 hours.	17	Solve $\frac{1}{3}P^2 = 24$. /
		How long will he take to cover a	!		
	Į.	distance of 450km?	, <u> </u>		4.5
	A			1000	
			. !		: ,.
	•		!		
F	10	5 4 0 0 4 and 6	40	The circumfer ence of a cir	rcle is
-	18.	Workout the mean of -4, 0, 9, 4 and 6	19	132dm. Calcula te its radiu	ıs.
	· . !		. 1	132am. Calcula	•
1	. !	1		• • •	
			1		/ • .
	1		!		
			1		
17	20.	Omoding covered a distance of 60km in	n 1	hour and 15 minutes. Callo	late his!
		speed.		2 - 1 - 1	· imi
					(= N. 91.
	: 1				
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	- 1				·\
	٠		1	<u> </u>	النا
		Section B (6			\ <u>\</u> .
2		The list below shows prices of differen	nt it	ems in a certain shop.	
		2kg of wheat flour at sh.8000			1
		1kg of sugar at sh.4600			1
		4 bars of soap at sh.14000			1
		A half litre of milk at sh.900.			
	10	(a) How much money will Mafabi pay fo	or 5'	kg of wheat flour?	(02 marks)
	.				1
					• //:
	10	b) Nafula buys 1kg of sugar, 2 litres of	f mi	lk and 4 bars of soap, how	much does
	1.	she pay?	• • •	m, and 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(03 marks)
		2.1.2 p.2.7.			(UU III mi no)
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	l.	•			
	1				
- <u>-</u>	<u></u>	© Prime Educational Consult 2023, TEL: 0393 283600, 075	12 999	2554 0772 097028, 0704 924083 P.	age 3

In a class, 48 pupils like Science (S), 60 like Maths (M), 2t like both subjects while 4 do not like any of the two subjects. (a) Complete the Venn diagram.

(02 mar. ...) .



(b) If there are 100 pupils in the class, find the value of t

(03marks)

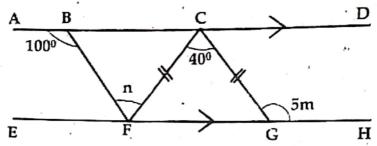
Omondi deposited some money in a bank that offers a simple interest rate of 18% p.a. After 12 months, Omondi had an amount of sh.885,000 in the bank. (03marks)

(a) Calculate the amount of money Omondi deposited in the bank.

(b) Calculate Omondi's interest.

(02marks)

In the figure below, AD is parallel to EH. Study the figure and answer the questions that follow.



(a) Find the value of m.

(03 marks)

(b) Find the value of n.

(02 marks)

Namenya filled a cylindrical tank with water using 10 containers of capacity 12.32 litres. If the base area of the cylindrical tank was 616cm², find the height of the water in the cylindrical tank.

26

Wanume went to the market with sh.70,000 and bought the items shown in the table below. He was given a discount of sh.500 and went back home with sh.2000.

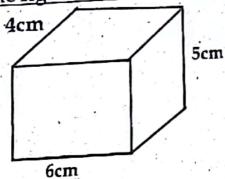
Complete the table.

Complete the table.		
Item	Unit cost	Total cost
2kg of meat	sh 14000	sh
3 fish	sh	sh 18000
$1\frac{1}{2}$ kg of chicken	sh	sh
		sh

(05marks)

27

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



(a) Calculate its T.S.A

(03marks)

(b) Work out its volume.

(02max)

,	er salary on rood and in	e rest on fees. If she spen	ids
sh.210,000 more on fe	es than food. Calculate	her total monthly salary.	
(05marks)		•	
			. \
			<u> </u>
The interior and outo	rior angles of a regular	polygon are 3d and 2d re	spectively.
The interior and exte	Tion angles of a regular	petygen	
Name the polygon.			,
307			
			(05 marks
		shildren Sanda Mila	and Kilo.
A mother shared par	t of her money to three	e children Senda, Mila,	$\frac{1}{\sqrt{2}}$ of the
and 1 wh	ile Kilo received 🔓 of t	he money. Senda recei	ved 2 or ar
MANIA PECEIVEL - WII			
Mila received 3 Wil		he money. Senda recei	
inder			(03 marks
inder	the money was shared		(03 marks
inder			(03 marks
remainder. (a) What fraction of	the money was shared	out?	(03 marks
remainder. (a) What fraction of	the money was shared	out?	(03 marks
remainder. (a) What fraction of	the money was shared	out?	(03 marks
remainder. (a) What fraction of (b) If the mother rer	the money was shared		(03 marks
remainder. (a) What fraction of	the money was shared	out?	(03 marks
remainder. (a) What fraction of (b) If the mother rer	the money was shared	out?	(03 marks
remainder. (a) What fraction of (b) If the mother rer	the money was shared	out?	(03 marks
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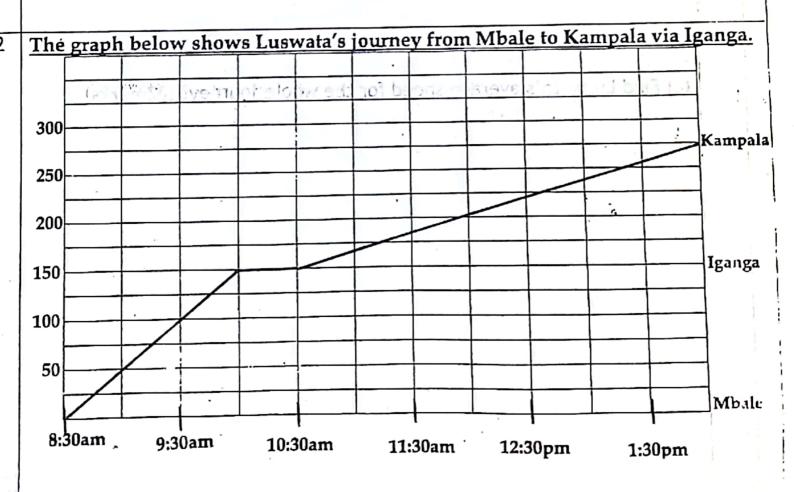
A man was 27 years older than his son 10 years ago. His wife is four years younger than he is. If their total age is 116 years now, how old is the son?

(04marks)

ced was Lucwata travelling at from Whale to Iranies! I I

(b) How old is the wife?

(01marks)



(a) Where was Luswata at 10:15am? (01marks) (b) At what speed was Luswata travelling at from Mbale to Iganga? (02marks) (c) Find Luswata's average speed for the whole journey? (02marks)		,		1001 10		
(b) At what speed was Luswata travelling at from Mbale to Iganga? (02marks)	Luswata at 10:1	15am? (01	marks)			, in the second
(b) At what speed was Luswata travelling at non-mode of the speed was Luswata travelling at no-mode of the speed was Luswata travelling at non-mode of the speed was Luswata travelling at non-mode of the speed was Luswata travelling at no-mode of the speed was Luswata travelling at	(a) Where was Lustral					
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	(b) At what speed was Luswa	ta travellin	g at ITO	II MEDICO II		
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	Tallalia War	i vamuoi e	Zin New	Tancha	well him	
(c) Find Luswata's average speed for the whole journey? (02marks)	And the second s					
(C) I file East and	(c) Find Luswata's average s	peed for th	e whole	journey?	(02marks)	
	(c) I ma Labridae					
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