

## THE PRIME EXAMINATIONS 2023

## PRIMARY SIX END OF YEAR **MATHEMATICS**

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100	FOR WELL EXPLAINED LESSON VIDEOS
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R	EAD THE FOLLOWING INSTRUCTIONS CAREFULLY  OUESTION  OUESTION  MARKS  INITIALS

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. This paper has two sections: A and B. Section A has 20 questions (40 Marks) and Section B has 12 questions. (60 Marks)
- 2. Answer ALL questions. All the working for both sections A and B must be shown in the spaces provided.
- 3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than on graphs and diagrams will not be marked.
- 4. No calculators are allowed in the examination room.
- 5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
- 6. Do not fill anything in the table indicated

"FOR EXAMINERS' USE ONLY"

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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22	A THE REAL PROPERTY.	
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED Consultant Mathematics Department (PEC)

**PUBLISHERS OF:-**

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

Turn Over

Organised by: PRIME EDUCATIONAL CONSULT @2023 Kampala

1	Section A	(40	Marks)	
1	Workout: 7 + 3		Write CCLV in Hindu Arabic numerals.	
3	Simplify: 6a + 3b + 2a + 10b	4	Work out: <u>11</u> - <u>7</u> 15 15	
5	Find the next number in the sequence; 2, 3, 5, 7,	6	Increase 240 in the ratio 5:4	
7	Given that set A = {2,3}. List down all subsets of set A.	8	What number is represented by the tallies below?	
9	Harriet bought 3kg of sugar. Express this quantity in grammes.	10	Change 17 <sub>ten</sub> to base five.	
11	In the diagram below, find the size of	ang	le marked q.	

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	A forty minute lesson ended at 9:00am. At what time did it start?	13	The LCM of two numbers is 24, their		
	what time did it start?	*	GCF is 2. If the first number is 6, find the second number.		
4					
4	A baby slept at 8:45pm. Express this time in 24 hour clock system.	15	Divide 3627 by 9.		
	AND PORT OF THE PROPERTY AND THE		term to ville grope and a series		
16	Find the number that has been expanded below. $(3x10^2) + (6x10^1) + (5x10^0)$	17	Show the number 2057 on the bacus		
18		ir of	compasses only, construct an angle o		
	60° in the space below.				
19	The exchange rate for 1 USdollar is Ush.3500. Convert 180 US dollars to Uganda shillings.	20	At a party, 72 litres of juice was shared among the guests. If each guest got $\frac{1}{2}$ litre. How many guests were served?		

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Page | 2

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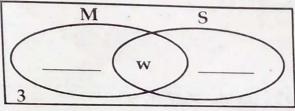
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(a) Complete the Venn diagram below.

(02 marks)



(b) Find the value of w.

(02 marks)

- (c) What is the probability of picking at random a pupil who likes Maths? (01 mark)
- 22 (a) Solve:  $34_y = 42_{five}$

(03 marks)

(b) Add: 104five + 23five (02 marks)

23 A pupil went for shopping and bought the items below.

6 exercise books at sh.1500 per book.  $1\frac{1}{2}$ kg of sugar sh.6000 per kg. 500ml of cooking oil at sh.4000 each litre.

(a) Calculate the pupil's total bill.

(04 marks)

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Page | 3

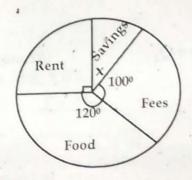
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(b) Measure  $\overline{BC}$ .

(01-mark)

28 The pie chart below shows how a man spends his monthly salary of sh.900,000.



(a) Find the value of x.

(02 marks)

(b) How much money does he spend on food every month?

(02 marks)

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Page | 5

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Sseremba is 10 years older than Mwanga. Their total age is 48 years. How old is 30 (03 marks) Sseremba?

(b) Solve:  $\frac{x}{5} = 4$ 

(02 marks)

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Marks	65	80	50	90
No. of pupils	2	3	4	1

(a) How many pupils did the test?

(01 mark)

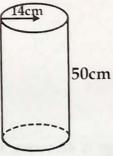
(b) Find the range in their marks.

(01 mark)

(c) Work out the average mark of the class.

(03marks)

32 Below is a cylindrical water tank. Study it and answer the questions that follow.



(a) Work out the volume of the tank.  $(\pi = \frac{22}{7})$ 

(02 marks)

(b) Find the capacity of the tank in litres.

(02 marks

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Page | 7 FOR ACADEMIC EXCELLENCE, ALWAYS USE THE PRIME; SCHEMING FRAMEWORKS, HOLIDAY PACKAGES, LEARNING GAMES, LESSON COURSE BOOKS AND PUPILS' WORKBOOKS