



# THE PRIME EXAMINATIONS 2023

## PRIMARY SIX END OF TERM II MATHEMATICS

Time allocated 2 hours 30 minutes



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### 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

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THE PRIME; SCHEMING FRAME WORKS, PUPIL'S WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES  
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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

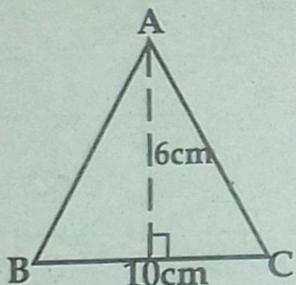
Consultant

Mathematics Department (PEC)

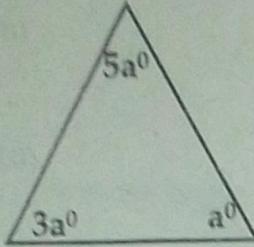
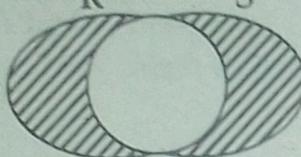
**Section A (40 Marks)**

1	Divide: $36 \div 6$	2	Find the sum of $\frac{1}{3}$ and $\frac{1}{4}$
3	Find the next two numbers in the sequence below. 25, 16, 9, _____, _____	4	5kg of sugar cost sh.15,000. How much money will one pay for 3kg of sugar?
5	Solve: $11x = 121$	6	In a basket, there are 15 blue pens and 5 red pens. If one pen is picked at random, what is the probability of picking a blue pen?

Find the area of the triangle below.



8	Round off 396 to the nearest tens.	9	Write in words 22,303.
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10	What is the complement of $49^\circ$ ?	11	Work out: $-8 + -2$
12	20% of the animals on a farm are cows. If there are 35 cows, how many animals are on the farm?		
13	Find the value of $a$ in degrees.		
			
14	Describe the shaded region. R      S 	15	Write 68 in Roman numerals.
16	A motorist covered a distance of 120km in $1\frac{1}{2}$ hours. What was his speed in km/h?	17	In a class of 60 pupils, 25 are girls and the rest are boys, find the ratio of boys to girls.
18	Find the square root of $1\frac{11}{25}$	19	The cost of 1 Ksh is Ugsh 28. How much Ugandan shillings will Joseph get from Ksh 350?

20 A truck carries 7 tonnes of cement. How many bags of cement each weighing 50kg can the truck carry?

23

U  
A

Section B (60 Marks)

21 Given that  $X = \{\text{all prime numbers between 1 and 15}\}$  and  $Y = \{\text{all odd numbers between 2 and 15}\}$

(a) List a set of members of;

(i) set  $X$ .

(01 mark)

(ii) Set  $Y$

(01 mark)

(b) List a set of members of  $(X \cap Y)$

(02 marks)

(c) Find  $n(X \cup Y)$

(02 marks)

24

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)

(iii) mean mass

(02 marks)

23

Using a pair of compasses, a ruler and a sharp pencil, only, construct a triangle ABC with side AB = 4cm, BC = 6cm and AC = 8cm. (04 marks)

24

A trader borrowed sh. 400,000 from a bank at an interest rate of 5% per year.  
 (a) How much interest must he pay after 6 months? (02 marks)

(b) What amount of money will he pay altogether? (02 marks)

(c) Workout:  $\frac{4.8 \times 0.3}{0.4 \times 0.9}$  (02 marks)

25

A woman went to Kisekka market and bought the following items.

- 4kg of meat at 12500 per kg.
- $2\frac{1}{2}$  kg of rice at sh 4000 per kg.
- 4kg of posho at sh.8400
- 500gm of sugar at sh.3200 per kg.

(04 marks)

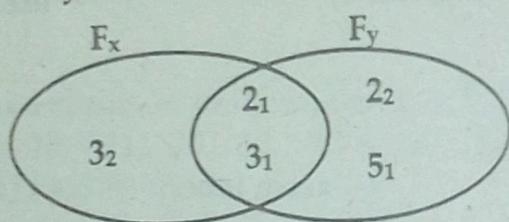
(a) Find her total expenditure.

(b) What was her balance if she had four notes of twenty thousand shillings?

(02 marks)

26

Study the Venn diagram and answer the questions that follow.



(a) Find the value of X.

(02 marks)

(b) Find the value of Y.

(02 marks)

(c) Find the L.C.M of X and Y.

(02 marks)

27

James had bank notes numbered from AP0043300 to AP0043399.

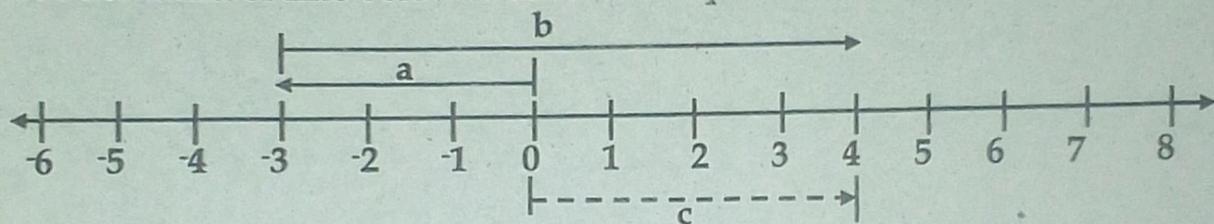
(02 marks)

(a) How many bank notes does Jane have?

(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)

(i)  $a = \underline{\hspace{2cm}}$  (ii)  $b = \underline{\hspace{2cm}}$  (iii)  $c = \underline{\hspace{2cm}}$

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

29

Workout:

(a) Hrs	Min
3	15
+1	<u>48</u>

(b) (02 marks each)

Weeks	Days
5	1
-3	6

30	<p>What is the difference between the value of 6 and the value of 4 in the numeral 24869? (03 marks)</p>
31	<p>(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 Kampala? (03 marks)</p> <p>(b) Express 10:30am in 24 hour clock system. (01 mark)</p>
32	<p>In a church service, there were 30% more males than females. If there were 70 females who attended the service, calculate the total number of people who attended the church service. (05 marks)</p>