



# THE PRIME EXAMINATIONS 2023

## PRIMARY FIVE BEGINNING OF TERM III

### 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

**"FOR EXAMINERS' USE ONLY"**

PUBLISHERS OF:-

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

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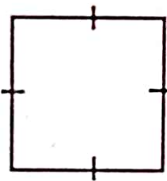
QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

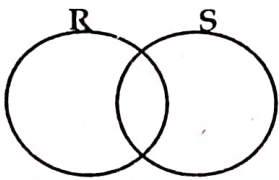
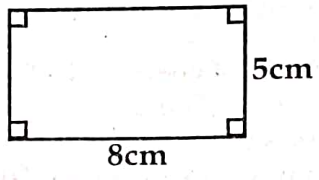

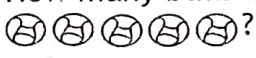
APPROVED

  
Consultant

Mathematics Department (PEC)

### Section A. (40 Marks)

1	Workout: $4 \times 5$	2	Write 2032 in words.
3	Express 75 in Roman numerals.	4	Three books cost sh 3600. Find the cost of one book.
5	Change 400cm to m.		
6	Express $7\frac{3}{4}$ as an improper fraction.	7	Set A = { all even numbers less than 10}. Write down all member of set A.
8	Find the number of lines of folding symmetry on the figure below. <div style="text-align: center; margin: 10px 0;">  </div>		
9	Find $\frac{2}{5}$ of sh.1000.	10	Find the value of 8 in the number 38456.

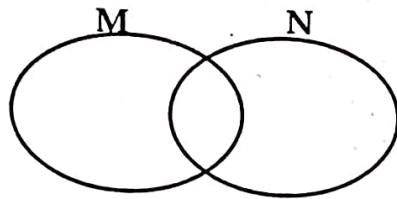
11	Simplify: $4\text{pens} - 3\text{pens} + 2\text{pens}$ .	12	Find the product of 123 and 12W
13	In the Venn diagram below, shade $R \cap S$ 	14	Express 0.8 as a fraction in its simplified form.
15	Find the missing number. $3 \times \square = 15$	16	Work out the total distance around the figure below. 
17	Work out: $\frac{7}{15} + \frac{4}{15}$	18	Given that  stands for 12 balls. How many balls are represented by  ?
19	How many half-litre bottles can be obtained from a 10 litre jerrycan full of water?		
20	Draw an angle of $90^\circ$ in the space below.		

**Section B. (60 Marks)**

21

Given that set  $M = \{2, 3, 5, 7, 11, 13\}$  and set  $N = \{1, 2, 3, 4, 6, 12\}$ .  
 (a) Represent the two sets on the Venn diagram below.

(03 marks)



(b) Find  $n(M \cap N)$

(02 marks)

22

Study the price list below and answer the questions that follow.

1 bottle of soda costs sh.1000.  
 2 books cost sh.3000.  
 1 sachet of salt cost sh.800.  
 1 kg of maize flour cost sh. 3000.

(a) Find the total cost of 2 bottles of soda and 2 books.

(02 marks)

(b) Work out the total cost of 3 kg of maize flour and a sachet of salt.

(03 marks)

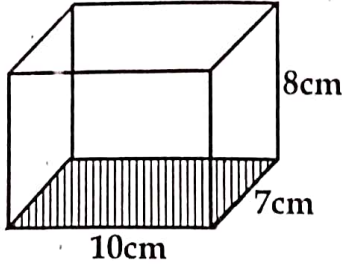
23

In a class of 40 pupils,  $\frac{3}{5}$  of them are boys and the rest are girls.

(a) Find the fraction of girls in the class.

(02 marks)



	<p>(b) How many boys are in the class? <span style="float: right;">(02 marks)</span></p> <p>(c) Find the number of girls in the class. <span style="float: right;">(02 marks)</span></p>
24	<p><u>Study the cuboid below and answer the questions that follow.</u></p> <div style="text-align: center;">  </div> <p>(a) How many edges has the cuboid above? <span style="float: right;">(01 mark)</span></p> <p>(b) Find the volume of the cuboid. <span style="float: right;">(02 marks)</span></p> <p>(c) Find the area of the shaded part. <span style="float: right;">(02 marks)</span></p>
25	<p><u>Use "&gt;", "&lt;" or "=" to compare.</u> <span style="float: right;">(01 mark each)</span></p> <p>(a) 30 minutes _____ 1 hour.</p> <p>(b) 2 weeks _____ 14 days.</p> <p>(c) <math>3 \times 0</math> _____ <math>3 \times 1</math></p> <p>(d) 5kg _____ 10kg</p> <p>(e) 4m _____ 100cm</p>

26 (a) A taxi covered a distance of 180km in 3 hours. Calculate the speed of the car. (02 marks)

(b) A mathematical exam started at 9:00am and ended at 11:30am. How long did the exam last? (02 marks)

(c) Change  $4\frac{1}{2}$  hours to minutes. (02 marks)

27 Use a ruler, a sharp pencil and a pair of compasses only to construct a square of sides 5cm. (04 marks)

28 (a) Change  $23_{\text{five}}$  to base ten. (02 marks)

(b) Work out: 
$$\begin{array}{r} 303_{\text{five}} \\ + 23_{\text{five}} \\ \hline \end{array}$$
 (02 marks)

(c) What is the place value of 4 in the number 142<sub>five</sub>?

(02 marks)

29 Use the digits 9, 4 and 6 to form three digit numbers.

(a) Write the smallest number formed.

(01 mark)

(b) Write the largest number formed.

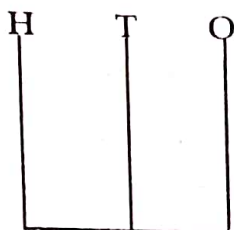
(01 mark)

(c) Find the difference between the smallest and the largest numbers formed.

(01 mark)

(d) Show the answer in (c) on the abacus below.

(01 mark)

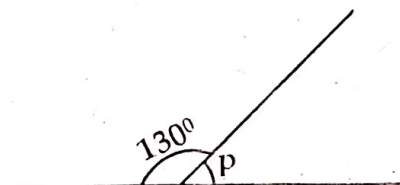


30 (a) Kasenge was facing in the East. He then turned clockwise to face North west. What angle did he turn through?

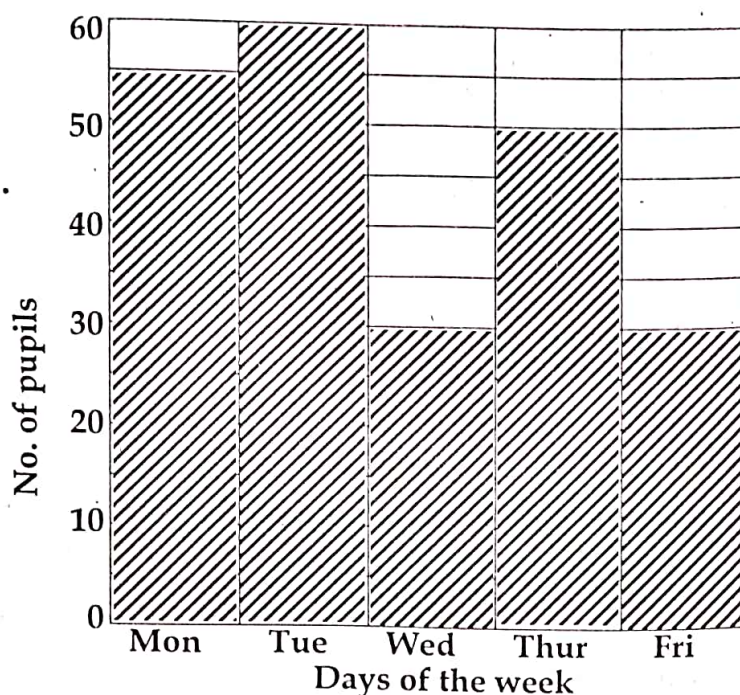
(02 marks)

(b) Find the size of angle marked p.

(03 marks)



- 31 The bar graph below shows the attendance of pupils of P.5 in a certain school for a week.



- (a) What was the attendance on Thursday? (01 mark)
- (b) On which days of the week was the attendance the same? (01 mark)
- (c) What was the total attendance that week. (02 marks)
- 32 James is 17 years, Jane is 12 years and Musa is 15 years old.
- (a) Find their total age. (02 marks)
- (b) How old will James be after 3 years? (02 marks)
- (c) How old was Musa 5 years ago? (01 mark)