



THE **PRIME EXAMINATIONS 2024**

## P.7 MID TERM I 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"**

FOR EXAMINERS' USE ONLY		
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)

### 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 @2024** **Kampala**

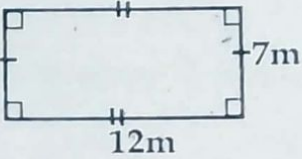



# Section A (40 Marks)

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1	Work out $18 \times 3$ .	2	Write ninety four thousand thirteen in figures.
3	Find the next number in the sequence below. 125, 64, 27, 8, _____	4	Given that set $P = \{9, 3, 2, 6, 0\}$ , find the number of subsets that can be got from set P.
5	Solve: $3(p-3) = 3$	6	Work out: $\frac{12}{13} - \frac{2}{39}$
7	Using a pair of compasses, a ruler and a very sharp pencil only, construct an angle of $60^\circ$ in the space below.		

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8	Work out: $3^2 \times 3^0$	9	Simplify: $-4 - -9$
10	Convert 5m/s to km/hr.	11	Find the area of the figure below. 
12	Subtract 487269 from 528426.	13	Convert 0.9kg to grammes.
14	Round off 6429 to the nearest tens.	15	Find the G.C.F of 28 and 63.
16	How many lines of folding symmetry has the figure below? 		

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After selling a dress at sh 25000, a trader made a profit of sh 5000. At what price did the trader buy the dress?

Convert  $414_{\text{five}}$  to base ten.

Increase sh 6,000 by 18%

Work out:  $(16 \times 18) + (14 \times 18)$  using distributive property.

## Section B (60 Marks)

The sum of 4 consecutive counting numbers is 90. Find the numbers if the number is  $p+2$ . (05m)

(05m)



22

(a) Work out:  $\frac{0.0036 \times 1.8}{0.24}$

(03 marks)

(b) Simplify:  $1\frac{1}{3} - \frac{5}{6} \div \frac{1}{4}$

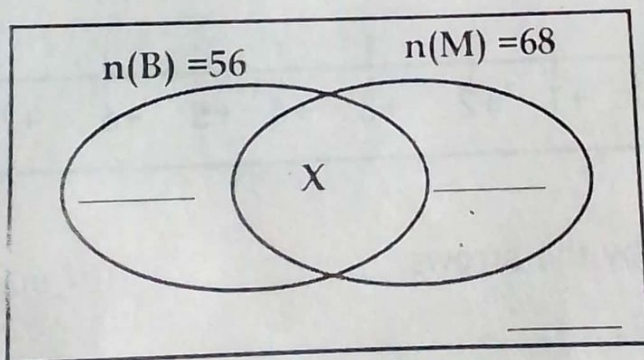
(02 marks)

23

In a village of 100 farmers, 56 farmers grow beans (B), 68 farmers grow maize (M) X farmers grow both beans and maize while 12 farmers grow neither bean nor maize.

(a) Use the above information to complete the Venn diagram below.

(03 mark)



(b) Find the value of X.

(02 m)



24

Mutesi went shopping and bought the following items.

2 kg of sugar at sh 4500 per kg.

$1\frac{1}{2}$  litres of cooking oil at sh 6000 per litre.

500gm of salt at sh 1800 per kg.

2kg of meat at sh 20,000.

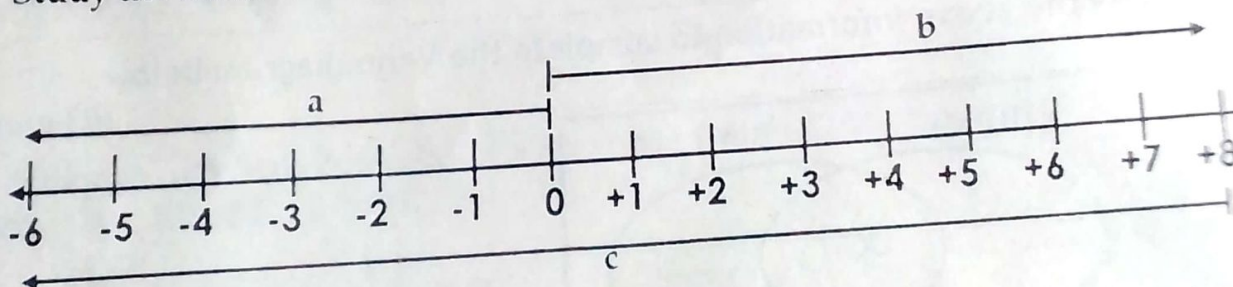
(04 marks)

(a) Find Mutesi's total expenditure.

(b) If Mutesi had a note of sh 50,000 at the beginning, how much was her balance? (01 mark)

25

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



(01 mark)

(a) Write the integers represented by the arrows.

(i) a \_\_\_\_\_

(ii) b \_\_\_\_\_

(iii) c \_\_\_\_\_

(b) Write the mathematical statement represented on the number line. (02 marks)



26

- (a) Construct triangle ABC in which angle  $ABC = 45^\circ$ , angle  $BCA = 75^\circ$  and line  $BC = 7\text{cm}$ .  
(04 marks)

(b) Find the length of AC.

(01 mark)

27

William scored the following marks in a series of Mathematics tests.  
60, 70, 50, 80, 60, 90, 80, 70, 60, 50

(a) Find William's medium score.

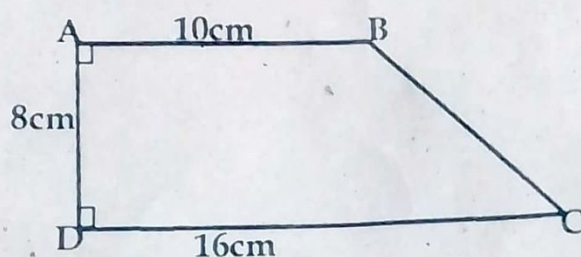
(02 marks)

(b) Calculate William's average score.

(03 marks)

28

Below is a trapezium, use it to answer questions that follow.



(a) Find the length BC.

(02 marks)

(b) Find the area of the figure.

(03marks)



29 Okello started his Journey at 8:00am and completed it at 10:30am. If he covered a distance of 150km, at what speed was he travelling? (03 marks)

(b) Work out: Weeks Days (02 marks)

3	4
+7	6
<hr/>	
<hr/>	

30 At a school, three bells namely A,B and C ring at intervals of 30mins, 40mins and 50mins respectively.  
(a) If they are rung together at the same time, after how long will the three bells ring together again? (03 marks)

(b) How many times will bell C ring before they ring together again? (02 marks)



31

(a) Ben, Badru and Brenda shared some money in the ratio of 2:5:3 respectively. If Badru got sh 50000, how much money did they share altogether? (03 marks)

(b) How much more money did Brenda get than Ben? (02 marks)

32

(a) Given that  $a=3$ ,  $b=c$  and  $c=5$ , find  $2ac + b$ . (02 marks)

(b) Simplify:  $2y + 4x + 6y - 8x$ . (03 marks)