



THE PRIME EXAMINATIONS 2024

P.7 MOCK MATHEMATICS (New Curriculum)

Time allowed 2 hours 30 minutes

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INDEX NO:

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Candidate's Name:

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. Do not write your school or district name anywhere on this paper.
2. This paper has **two** sections: A and B Section A has 20 questions and section B has 12 questions. The paper has 9 printed pages.
3. Answer **all** questions. **All** the working for both sections A and B must be shown in the spaces provided.
4. **All** working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the table indicated "For Examiners' use only", and those boxes inside the question paper.

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		

Consultant

Mathematics Department (PEC)

PUBLISHERS OF:-

THE PRIME; SCHEMING FRAME WORKS, PUPILS' WORKBOOKS, LESSON COURSE BOOKS, HOLIDAY PACKAGES, LEARNING GAMES AND MORE...

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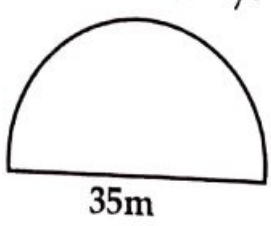
Kampala

Turn Over

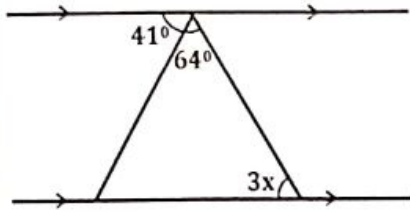
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Section A (40 Marks)

<p>1. Work out: $64 + 24$</p>	<p>2. Write 19037 in words.</p>
<p>3. Find the 6th triangular number.</p>	<p>4. Given that set $Y = \{1, 2, 4, 8\}$, find number of subsets that can be obtained from set Y.</p>
<p>5. Write 0.009076 in standard notation.</p>	<p>6. Henry started his journey at 11:40am. If the journey took him 6hrs and 50mins, at what time did journey end?</p>
<p>7. Draw an angle of 55° in the space below.</p>	
<p>8. Given that $K = 4$, $L = 3$ and $M = 2$. Find the value of $KL - M$.</p>	<p>9. Convert 0.256kg to grammes.</p>

<p>10. There are 18 books in the box. 7 are novels, 5 are diaries and the rest are note books. Find the chance of picking a notebook at random.</p>	<p>11. Express 26 in finite 9.</p>
<p>12. Find the least number of sweets that can be shared among 18 or 15 pupils leaving a remainder of 2.</p>	<p>13. Workout: $18 \div \frac{2}{3}$.</p>
<p>14. Find the total distance around the figure below. ($\pi = \frac{22}{7}$)</p> 	<p>15. Nambozo bought a sack of charcoal at sh 55000. She sold it making a profit of sh 8500. At what price did she sell the sack of charcoal?</p>

16

Find the value of x in degrees.

17

The ratio of cows to goats on a farm is 3:5. If there are 600 goats on the farm, find the number of cows on the farm.

18.

Solve: $3(2 - x) = 16$

19.

The mean of 9, 10, $X + 2$, 6 and X is 7. Find the value of X .

20.

Express 90m/s in km/h.

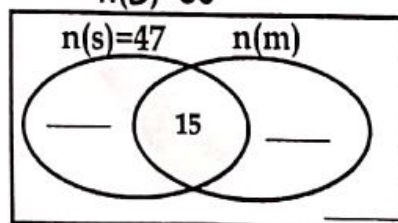
Section B (60 Marks)

21

There are 86 learners in a class. 47 like science(s), 15 like both science and mathematics (m), $2r-3$ like mathematics only. 6 learners like neither mathematics nor science.

(a) Show the above information on the Venn diagram below.

$$n(\mathcal{E})=86$$



(03 marks)

(b) Find the value of r .

(02 marks)

22

(a) Convert 103_{five} to base three.

(03 marks)

(b) Given that $302x = 200_{\text{five}}$. Find the value of x .

(03 marks)

23

Okware went shopping and bought the following item.

- 3kg of sugar at sh 3800 per kg.
- $1\frac{1}{4}$ kg of posho flour at sh 2000 per kg.
- 500ml of cooking oil at sh 7500 per litre.
- 2 packets of blue band at sh 6500.

(a) Find Okware's total expenditure.

(04 marks)

(b) If he had sh 30,000 at the beginning, how much money did he remain with?

(1 mark)

- 24 (a) Given that $489m$ is a four digit number which is completely divisible by 6.
Find the least value of m . (02 marks)

- (b) Two bells ring at intervals of 40 mins and 50 minutes for lower and upper primary classes respectively. After how long will the two bells take to ring together? (02 marks)

- 25 Using a ruler, a pencil and a pair of compasses only, construct a rhombus PQRS where $PQ = 8\text{cm}$, $QR = 6\text{cm}$ and angle $PQR = 135^\circ$. (04 marks)

- (b) Measure the diagonal QS.

(1 mark)

6.

arks)

26. The time table below shows the doctors schedule at CURE THE SICK hospital. Study it and answer the questions that follow.

Time interval	Person on duty
12:00am-02:30am	Dr. Richard
04:00am-10:00am	Nurse Nulu
12:00pm-3:30pm	Dr. Hassan
5:00pm-11:00pm	Nurse Aisha

(a) Express the time DR. Hassan leaves duty in 24 hour clock.

(1 mark)

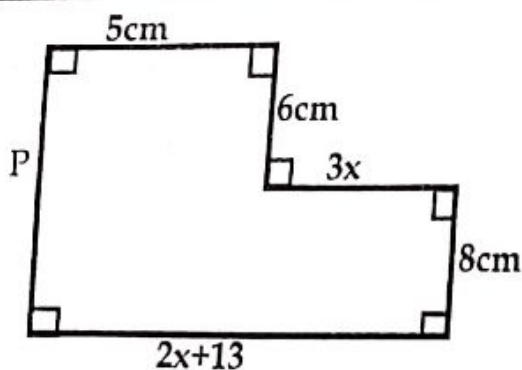
(b) If Nurse Nulu attends to 2 patients in 2 hours, how many patients does she attend to when on duty?

(02 marks)

(c) For how many hours does Nurse Aisha work?

(02 marks)

27. Study the figure below and answer the questions that follow.



(a) Find the value of P .

(1 mark)

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(b) Find the value of x .

(02 marks)

(c) Find the area of the figure.

(02 marks)

28

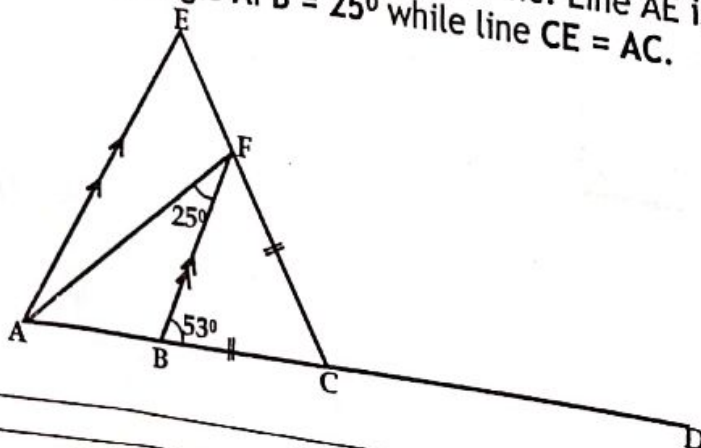
If $\frac{1}{3}$ of the books in the library are for English and $\frac{1}{4}$ of the remainder are Mathematics and the rest are for other subjects.

(a) What fraction of the books in the library are for other subjects. (03 marks)

(b) If 210 books are for other subjects, find the total number of books in the library. (02 marks)

29

In the figure below ABCD is a straight line. Line AE is parallel to line BF, angle CBF = 53° and angle AFB = 25° while line CE = AC.



(a) What is the size of angle EAB?

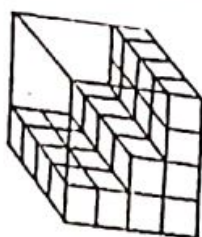
(02 marks)

(b) What is the size of angle FCD?

(02 marks)

30

Study the figure below and answer questions that follow.



(a) How many cubes were arranged to form the figure above?

(02 marks)

(b) How many cubes are needed to fill the box above?

(02 marks)

(c) If each small cube has a volume of 8cm^3 , find the total volume of the cubes on the first layer.

(02 marks)

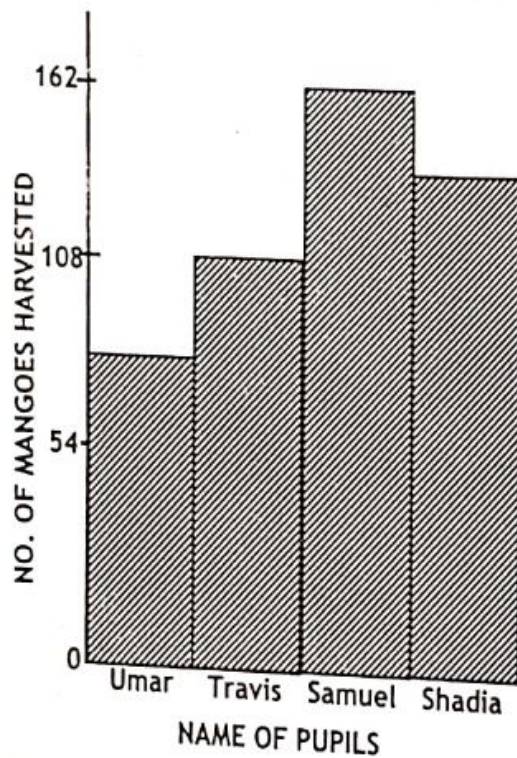
31

Kasim is 25 years older than his daughter. In 10 years time, Kasim will be twice as old as his daughter.
(a) How old is Kasim's daughter now?

(3 marks)

(b) Find the total age of Kasim and his daughter in 10 year's time? (02 marks)

32 The graph below shows mangoes harvested by four pupils. Study it and answer the questions that follow.



(a) How many mangoes did Umar harvest?

(1 mark)

(b) How many more mangoes did Samuel harvest than Shadia?

(02 marks)

(c) If Travis sold 2 mangoes at sh 700, find the total amount he got from the sale of his mangoes.

(02 marks)

