



THE PRIME EXAMINATIONS 2024

P.7 MID TERM II MATHEMATICS

Time allowed 2 hours 30 minutes

INDEX NO:

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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		

APPROVED:

Consultant

Mathematics Department (PEC)

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Kampala

Turn Over

Section A. (40 Marks)

1 Workout: 7294 - 94

2

Write 172063 in words.

3

Given that set $K = \{4, 6, 7, 5\}$, find the number of proper subsets that can be got from set K.

4

Simplify: $-19 - -12$

5

Find the next number in the sequence below.

125, 64, 27, _____

6

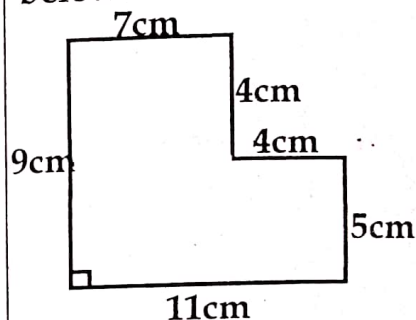
Using a ruler, a pencil and a protractor, draw an angle of 70° in the space below.

7
WARNING: Not to be reproduced electronically!!

Work out: $\frac{8}{9} - \frac{1}{9}$

8

Find the perimeter of the figure below.



9

300gm of salt cost sh 900. Find the cost of 3kg of salt.

10

Express 108km/h in m/s.

11

Solve: $5(x - 2) = 20$

12

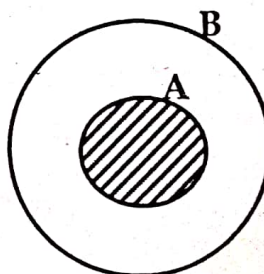
Add: $403_{\text{five}} + 144_{\text{five}}$

13

What number has been expressed in standard form to give 9.0126×10^2 ?

14

Describe the unshaded region.

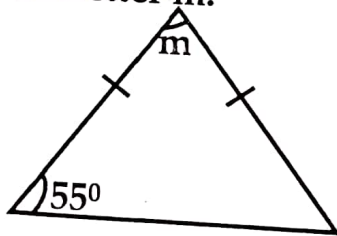


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15 Round off 67042 to the nearest thousands.

16 Find the least number of books that can be shared among 18 or 24 pupils leaving a remainder of 3 books.

17 Find the size of the angle marked with letter m.



18 Decrease 2400kg of sugar by 15%.

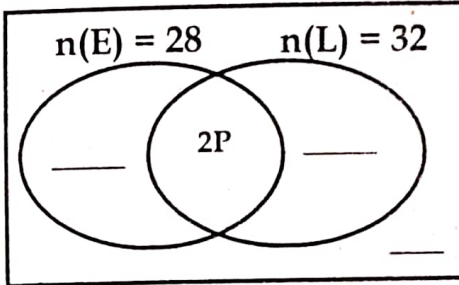
19 Convert 91 days to weeks.

20 Draw a net of a cone in the space below.

Section B. (60 Marks)

- 21 In a class of 47 pupils, 28 pupils speak English (E), 32 pupils speak Luganda (L), 2p pupils speak both English and Luganda while 3 pupils speak neither of the two languages.

(a) Represent the above information on the Venn diagram below. (03 marks)



(b) Find the value of p. (02 marks)

- 22 The sum of 3 consecutive even numbers is 156. Find the numbers if the smallest number is $2n - 2$. (05 marks)

- 23 Given the numeral 813542. (01 mark)
- (a) Which digit is in the thousands place value?

(b) Work out the sum of the value of 1 and the value 5.

(03 marks)

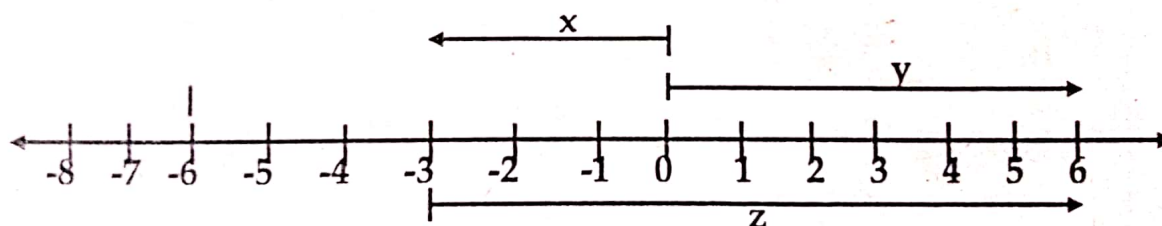
24 (a) Work out: $4 - 8 + 12 - 6$.

(02 marks)

(b) Simplify: $\frac{36p^5 \times 8p^3}{48p^6}$

(03 marks)

25 Study the number line below and answer the questions that follow.



(a) Write the integers represented by the arrows.

(01 mark each)

(i) $y =$ _____ (ii) $x =$ _____ (iii) $z =$ _____

(b) Write the mathematical statement shown on the numberline above?

(02marks)

26

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In a class, $\frac{7}{15}$ of the pupils are boys and the rest are girls.

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

(02 marks)

(b) If there are 48 girls in the class, find the total number of pupils in the class.

(03 marks)

27

Zauja scored the following marks in a series of mathematical tests 50, 30, 70, 50 and 80.

(a) Find the range of her marks.

(02 marks)

(b) Find Zauja's average score in the tests.

(03 marks)

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28

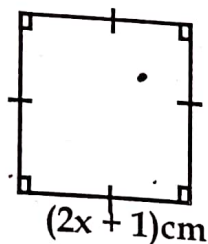
(a) Using a ruler, a pencil and a pair of compasses, construct a regular hexagon of radius 4.0cm. (03 marks)

(b) Find its perimeter.

(02 marks)

29

Study the figure below and answer the questions that follow.



(a) If the perimeter of the figure above is 36cm, find the value of x. (03 marks)

(b) Work out the area of the figure.

(03 ma

30

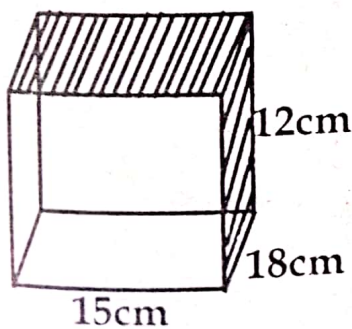
Study the bill table below and complete it correctly.

(05 ma

Item	Quantity	Unit cost	Amount
Sugar	2kg	sh 3000 per kg	sh _____
Rice	_____ kg	Sh 4200 per kg	Sh 6300
Milk	$1\frac{3}{4}$ litres	Sh _____ per litre	Sh 3500
Bread	3 loaves	Sh 6000 per loaf	Sh _____
Total			Sh _____

31

Below is a cuboid.



(01 ma

(a) How many faces has the shape?

(b) How many edges has the shape?

(01 mark)

(c) Find the total area of the unshaded parts of the above figure.

(02 marks)

32 Complete the table below correctly.

(03 marks)

Base	No	Remainder
4	—	2
4	17	—
4	4	0
	1	

(b) Find the value of the unknown base.

(03 marks)

$$201_m = 163_{\text{tep}}$$