

THE **CANAAN** TERM I EXAMINATIONS BOARD 2023
PRIMARY SEVEN
MATHEMATICS (ABBRIDGED CURRICULUM)

SET III

Time allowed 2 hours 30 minutes

INDEX NO.:

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Pupil's Name:

Class:

School:

District:

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of **two** sections: **A** and **B**.
2. Section **A** has 20 questions (**40 Marks**)
3. Section **B** has 12 questions (**60 Marks**).
4. Answer **ALL** questions in section **A** and **B**.
5. All working **must** be done using a **blue** or **black ball** point or fountain pen. Only diagrams should be drawn in pencil. Any work done in pencil will not be marked.
6. No calculators are allowed in the Examination room.
7. Unnecessary changes of work and any handwriting that cannot be easily read may lead to **loss** of marks.
8. Do not fill anything in the boxes indicated "FOR EXAMINERS' USE ONLY"

TERM I WORK

- **THEME 1: SETS**
- **TOPIC 1: SET CONCEPTS**
- **THEME 2: NUMERACY**
- **TOPIC 2: WHOLE NUMBERS**
- **TOPIC 3: OPERATIONS ON WHOLE NUMBERS**
- **TOPIC 4: NUMBER PATTERNS AND SEQUENCES**

FOR EXAMINERS' USE ONLY

SECTION:	Subject Tr's marks	Head of Dept's Assessment Marks	Supervisor's Final Assessment Marks
A: 40			
B: 60			
TOTAL: Out of 100			

Excellence tip

For appropriate solution. Go through your work after finishing.

Organised by:

APPROVED:

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**KBTCMIH a
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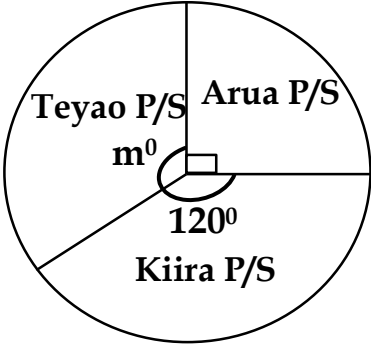
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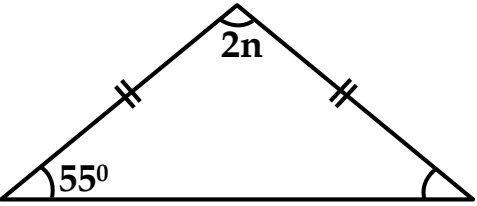
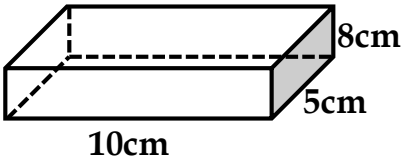
**Consultant
Mathematics Department (PEC)**

Turn Over

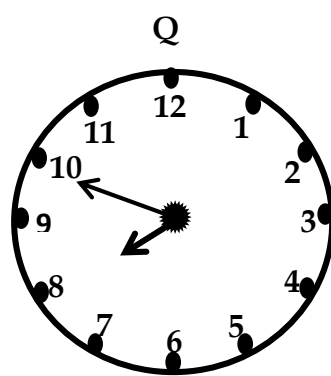
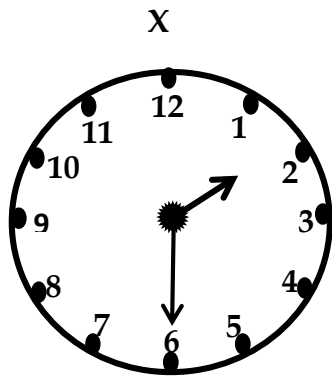
Page 1

Section A(40 Marks)

1	Add: $66 + 22$.	5	Given that set $K = \{1, 3, 6, 10, 15, 21, 28\}$ and set N is a subset of set K. List all the members of set N if N is a set of even numbers.
2	Find the next number in the sequence below. 2, 3, 5, 7, 11, ____	6	Calculate the area of an isosceles triangle whose base is 10m and height is 6m.
3	<p>The pie chart below shows the number of pupils in three schools. Use it to answer the question that follows.</p>  <p>Find the value of m in degrees</p>	7	Find the number expanded to give $(2 \times 3 \times 3) + (1 \times 3) + (1 \times 1)$.
4	Solve for w: $3(w-2) = 9$	8	Find the range of -6, +2, -1, 0, +1 and -9

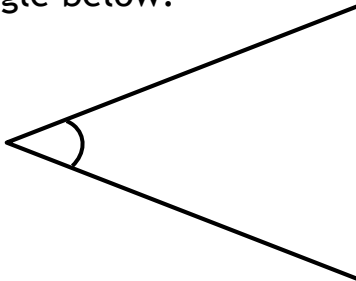
9	Express $\frac{13}{3}$ as a mixed fraction.	13	The cost of each book is sh.500. Find the cost of a gross of books.
10	<p>Below is an isosceles triangle. Study it carefully and use it to answer the question that follows.</p>  <p>Find the value of n.</p>	14	Joanita went to a supermarket and bought 23 eggs. Express the number of eggs she bought using tallies.
11	Convert 2 hours to minutes.	15	Without dividing, show that 18 is exactly divisible by 3.
12	<p>Find the total surface area of the cuboid below.</p> 	16	How many half litre cups can fill a 20 jerry can?
		17	Given that $p^2 = 1001_{\text{two}}$. Find the value of p

- 18 Olivia went to bed in the afternoon at the time shown on the clock face X and woke up in the evening at the time shown on the clock face Q. Study it carefully and use it to answer the question that follows.



Calculate the time she spent sleeping.

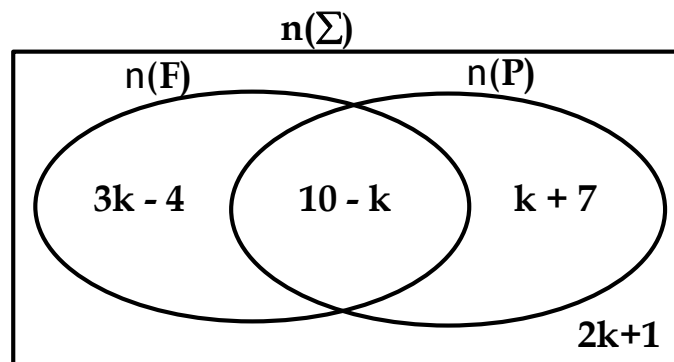
- 19 Using a pencil, ruler and a pair of compasses only, bisect the acute angle below.



- 20 Solve and list the solution set for:
 $3k + 2 > 11$

Section B(60 Marks)

- 21 During end of year party at Prime Avenue-Kampala celebrated by BTCMH staff, two types of drinks were served. Some staff took Fanta(F), others took Pepsi cola(P), others took both while some dislike both as shown in Venn diagram below. *Study it carefully and use it to answer the questions that follow.*

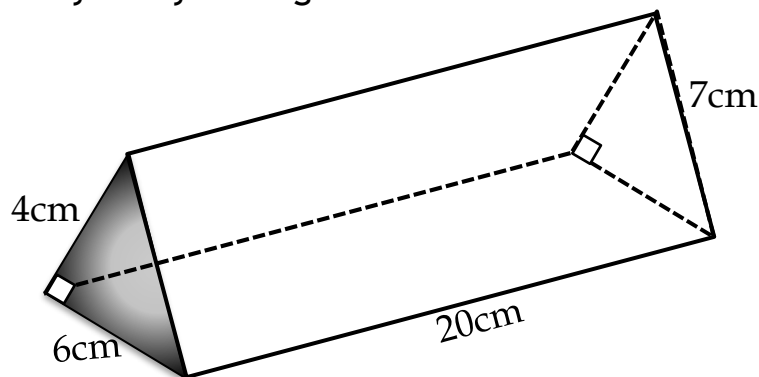


- (a) Find the value of k if 27 staff did not take Pepsi cola.

(03 marks)

	<p>(b) If a staff is to be picked at random serve the rest with lunch, find the probability of picking a staff who took only one type of drink. (03 marks)</p>
22	<p>(a) Write “<i>Seven hundred fifty six thousand, eight hundred nine</i>” in figures. (02 marks)</p> <p>(b) What is the value of 6 in 93.268? (02 marks)</p> <p>(c) Expand 7862 using values. (02 marks)</p>
23	<p>Jemimah <i>sold a dress at sh.76,000 making a loss of sh.4,000.</i></p> <p>(a) Calculate the cost price of the dress. (02 marks)</p> <p>(b) Work out her percentage loss on the dress. (02 marks)</p>
<p>© CANAAN EDUCATIONAL Consult 2023. TEL: 0780476504, 0774499986, 0784499856, 0785402928 Page5 THE CANAAN P7 MATHEMATICS TERM I EXAMINATIONS 2023 SET III. FOR ACADEMIC EXCELLENCE, ALWAYS USE THE EMMY’S; SCHEMING FRAMEWORKS, HOLIDAY PACKAGES, LESSON COURSE BOOKS AND PUPILS’ WORKBOOKS.</p>	

24 Carefully study the figure below and use it to answer the questions that follow.



(a) Name the above figure. (01 mark)

(b) Calculate the area of the shaded face. (02 marks)

(c) Work out the volume of the above figure. (02 marks)

25 (a) Two angles $2x$ and 50° are complementary angles. Find the value of x . (02 marks)

(b) Matayo was facing north. He then turned clockwise through 90° . Find his new direction. (02 marks)

26 A soldier travelled from Kampala to Nakasongola via Bombo. He left Kampala and travelled at a constant speed of **40km/hr for 2 hours** to Bombo. He then left Bombo and **continued** with his journey to Nakasongola which is $\frac{3}{4}$ of the journey at a speed of **60km/hr** until he reached Nakasongola.

(a) Work out the distance from Kampala to Bombo. (02 marks)

(b) Work out the total distance from Kampala to Nakasongola. (02 marks)

(c) Calculate the time taken by the soldier from Bombo to Nakasongola. (02 marks)

27 (a) Solve for t: $2t - 7 = 11$ (02 marks)

(b) Given that $a = 3$ and $b = 2a$. Find the value of $a + b$. (02 marks)

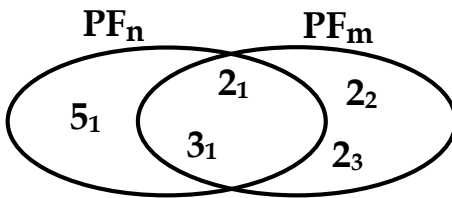
- 28 Josephine went to the market with sh.20,000 and bought the following items;
2kg of sugar at sh.3,500 per kg.
500gm of salt at sh.1,200 each kg.
36 books at sh.1,000 for every 3 books
4 pens at sh.300 per pen.
(a) What was her total expenditure? (05 marks)

(b) If she was given a discount of 10%, how much did she pay? (01 mark)

- 29 (a) Using a pair of compasses, ruler and a pencil only, construct a triangle ABC
Where $AB = 6\text{cm}$, $ABC = 45^\circ$ and $BAC = 60^\circ$. (04 marks)

(b) Measure line \overline{BC} (01 mark)

- 30 The Venn diagram below shows the prime factors of m and n . Use it to answer the questions that follow.



(a) Find the value of n and m (02 marks)

(b) Find the Lowest Common Multiple (L.C.M) of n and m . (02 marks)

- 31 The table below show marks scored by P.7 pupils in a Mathematics examination. Use it to answer the questions that follow.

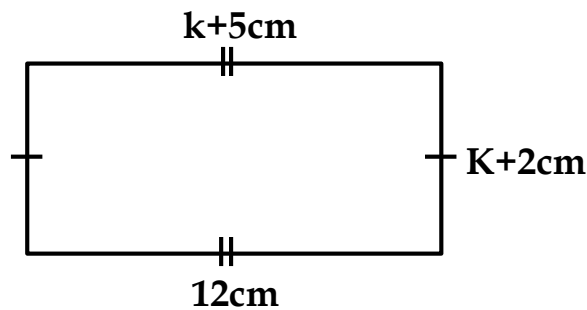
Marks scored	70	80	50	90	45	60	15	20
Number of pupils	3	2	2	1	1	4	1	6

(a) How many pupils did the Mathematics examination? (02 marks)

(b) What was the modal mark? (01 mark)

(c) Calculate the average mark of pupils who scored above 50. (02 marks)

32 Study the figure below and use it to answer the questions that follow.



(a) Find the value of k (02 marks)

(b) Find the width of the above figure. (01 mark)

(c) Calculate the area of the figure (02 marks)