THE CANAAN BEGINNING OF TERM I EXAMINATIONS 2023
PRIMARY SEVEN
MATHEMATICS

INTERNAL SET I

Time allowed 2 hours 30 minutes

INDEX NO.: | | | | | | | | | | |

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

Make sure you tackle questions which require your deep understanding with a lot of care. This will avoid panic due to minor mistakes, hence saving time.

Organised by:

APPROVED:

……

Consultant

Mathematics Department (PEC)

KBTCMH a

PUBLISHERS OF: -

Turn Over

Section A(40 Marks) set i

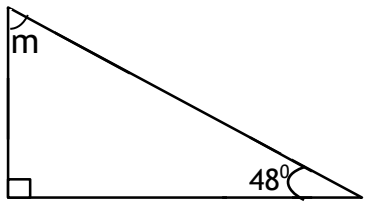
1 Multiply:

$$\begin{array}{r} 30 \\ \times\ 3 \\ \hline \\ \hline \end{array}$$

2 Find the next number in the sequence below.
3, 5, 7, 9, _____

3 The product of the value of **3** and the value of **5** in a number is **150,000**. If the place value of **5** in the number is **tens**, find the place value of **3**.

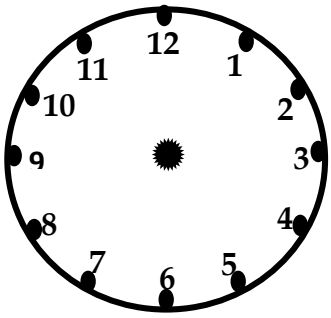
4 The figure below is a right angled triangle. Use it to answer the question that follows.



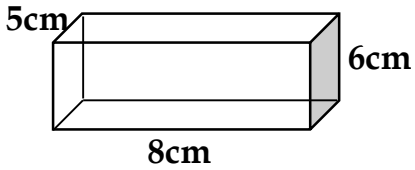
Find the size of angle marked m.

5 Crane Junior school will play against Bwaise football club next week. What is the probability that Crane Junior school will win that match?

6 Show a quarter to five O'clock on the clock face below.



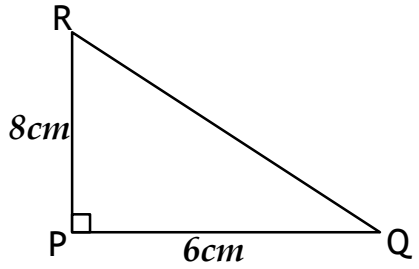
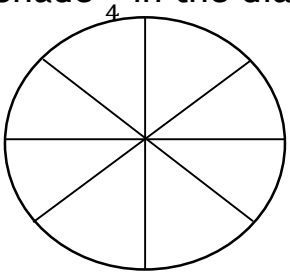
7 Use the cuboid below to answer the question that follows.



Calculate the sum of length of all the edges.

8 Complete the table below.

Days	1	7	3	_____
Hours	24	_____	72	48

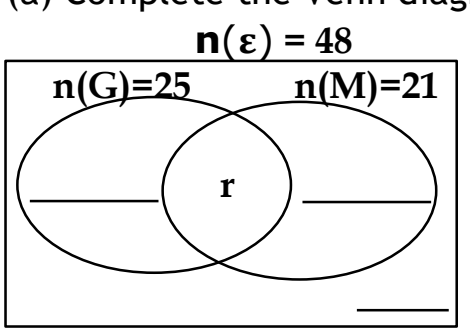
9	In the space provided below, construct an angle of 30^0.	14	Calculate the missing side QR in the triangle below. 
10	Given that set P = { a , e, i, o, u} and set R = {d, e, a, f }. Find P∪R.		
11	Given that  represents 24 boys in P.7 class. Draw pictos to represents 120 boys.	15	Shade $\frac{3}{4}$ in the diagram below. 
12	A farmer withdrew 120 notes of money from the bank. If the notes were numbered consecutively, find the number on the first note if the number on the last not was BU 021198342	16	James is **5 years younger** than Peter who is **12 years** old. Find their total age.
13	Simplify: $^{-}9 - ^{-}5$.	17	Tom bought **XLV** mangoes and also got more **IV** mangoes from his mum. Find Tom's total number of mangoes in **Roman numerals.**

18	Solve the inequality: $2y + 3 > 13$	19	Subtract: ½ - ¼
20	Find the square root of 121.		

Section B

21 In a class of 48 pupils, 25 eat greens(G), 21 eat meat(M), r eat both greens and meat while 4 pupils eat none of the two foods.

(a) Complete the Venn diagram below. *(03 marks)*



(b) Find the value of r *(02 marks)*

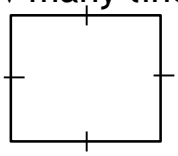
(c)If a pupil is picked at random from the class to be the class monitor, find the probability that the pupil picked eat only one type of food. *(01 mark)*

22 (a) Work out the value of 9 in the number 479,088 *(02 marks)*

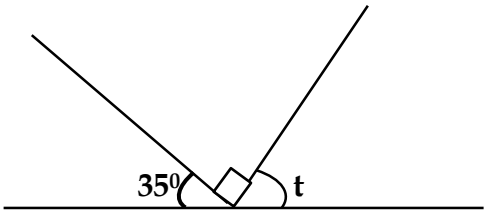
(b) Find the number expanded to give (3×1000)+(0×100)+(2×10)+(8×1) ***(01 mark)***

(c) Round off 1957931 to the nearest thousands. ***(02 marks)***

23. How many lines of folding symmetry has got the figure below? ***(02 marks)***



(b) Work out the size of angle marked t in degrees. ***(02 marks)***

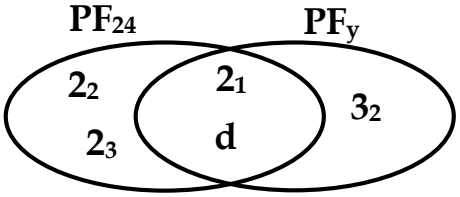


24 A motorist started his journey from town M and travelled at a constant speed of 70km/h for 3 hours. He the rested for half an hour and countinued with his journey at a speed of 80km/hr for 1 ½ hours until he reached town P.
Find the motorist average speed for the whole journey. ***(06 marks)***

25 (a) Work out: $\frac{0.12\times0.48}{0.02\times0.2}$ *(03 marks)*

(b) Express $\frac{1}{3}$ as a decimal number. *(02 marks)*

26 Study the Venn diagram below and use it to answer the questions that follow.



(a) Workout the value of d. *(02 marks)*

(b) Find the value of y *(02 marks)*

(c) Calculate the GCF of y and 24. *(01 mark)*

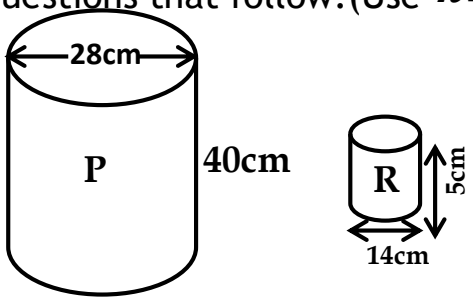
27 (a) Given that a = 2, b =5 and c =3
Find the value of a+b+c. *(02 marks)*

(b) Simplify: 3k+7y+7k+2k. *(02 marks)*

28 (a) Using a pencil, ruler and a pair of compasses only, construct a triangle **XYZ** where **XY = 3cm** angle **YXZ = 90⁰** and angle **XYZ = 60⁰**. *(04 marks)*

(b) Measure line XZ = _____cm *(01 mark)*

29 The diagram below shows a tank P and the container R. Use it to answer the questions that follow. (Use $\pi = \frac{22}{7}$)



(a) Find the volume of tank P. *(02 marks)*

(b) Find the volume of container **R** *(02 marks)*

c) If a pupil was told to fill tank P with water using container of size R, how many such containers will be needed to fill the tank? *(02 marks)*

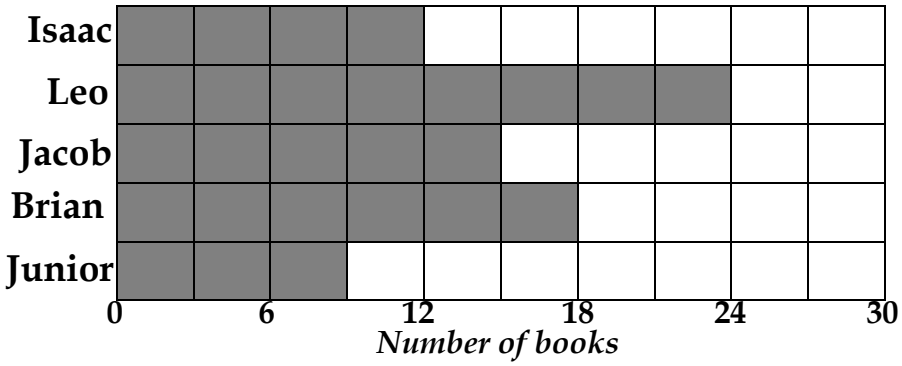
30 A shopkeeper bought 3 dozens of exercise books at *sh.4400 per dozen*. How much should he *sell each book* in order to *get a profit of sh. 4,800*? *(04 marks)*

31 In a school, the fraction of boys is $\frac{1}{2}$ more than that of girls.

(a) Find the fraction of girls in the school. *(03 marks)*

(b) If there are **12** girls in the school, how many pupils are in the school altogether? *(02 marks)*

32 The bar graph below shows the number of books given to P.7 pupils by their class teacher. Use it to answer the questions that follow.



(a) How many books did Jacob get? *(02 marks)*

(b) What was the highest number of books given to one learner? *(01 mark)*

(c) Find the total number of books given to Isaac and Junior. *(02 marks)*