KITGUM MUNICIPAL COUNCIL EXAMINATION COMMITTEE
PRE-PRIMARY LEAVING EXAMINATIONS, 2022
PRIMARY SEVEN
MATHEMATICS

Time allowed: 2 Hours 30 Minutes

Random No.						Person No.		

Candidate's Name.....

Candidate's Signature.....

District.....

Read the following instructions carefully:

1. This paper has two Sections: A and B.
2. 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 fountain pen. Diagrams should be drawn in pencil.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any handwriting that can not be easily read may lead to loss of marks.
7. Do not fill anything in the boxes indicated "For Examiners' Use Only" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	EXRS' NO.
01 - 05		
06 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

 Turn Over

SECTION A (40 MARKS)

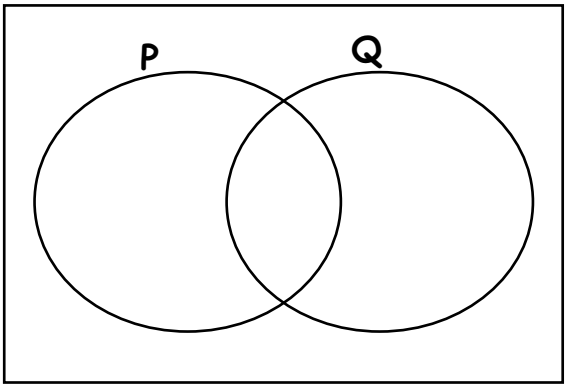
1. Add: 2 5
   + 7 4
   _____
   _____

2. Write XCIV in Hindu Arabic Numeral.

3. What is the next number in the sequence below:
   0, 1, 5, 14, 30, _____

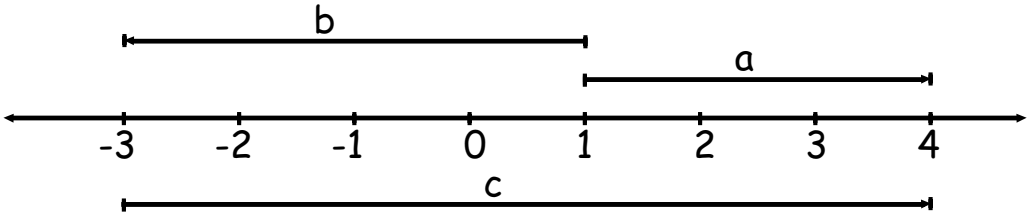
4. Remove the bracket and simplify:
   3a + 5 - 2(a-4)

5. The venn diagram below shows sets **P** and **Q**. Shade the region representing the complement of set P.



6. Increase Shs 16,000 in the ratio 5:4.

7. Write the mathematical statement shown on the number line below.

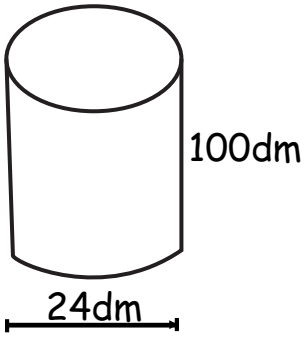


8. A basket contains 5 red, 7 blue and 3 white marbles. What is the probability of picking a white marble at random from the basket.

9. Solve $\frac{k}{8} - 3 = 2$

10. A motorist covered a distance of 75km in 45 minutes. What was her speed in km/hr?

11. The figure below is a cylindrical tin. Find its volume (Take $\pi = 3.14$)

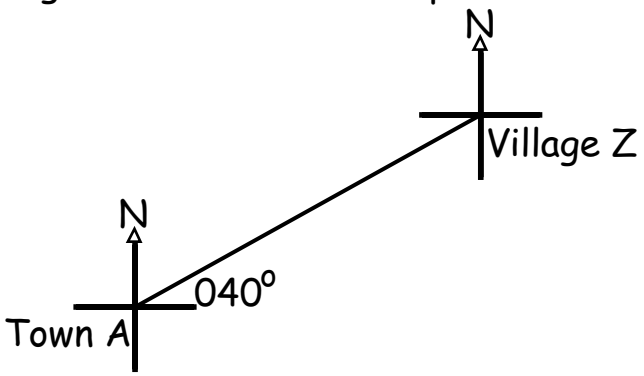


12. A trader made a profit of 35% when he sold a laptop at shs. 945,000. At what price did he buy the laptop?

13. Write 8.103 in expanded form using powers of 10.

14. A study tour that took $2\frac{1}{4}$ hours ended at 2:05pm. At what time did it start in 12 hour time system?

15. The figure below shows the position of the two places. Town A and village Z.



What is the bearing of Town A from village Z?

16. Today is Tuesday. What day of the week was 37 days ago?

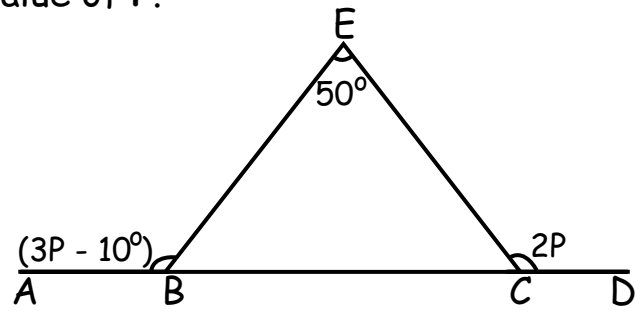
17. Work out:

$$\begin{array}{r} 2\ 2\ 4_{\text{five}} \\ +\ 1\ 3\ 4_{\text{five}} \\ \hline \text{five} \\ \hline \end{array}$$

18. A circular seed bed has an area of $6.16m^3$. Find the radius of the seed bed (Take $\pi = \frac{22}{7}$)

19. In a school, there are 20% more male than female teachers. What fraction of the teachers are male in that school?

20. The figure below is made up of a straight line **AD** and triangle **BCE**. Find the value of **P**.

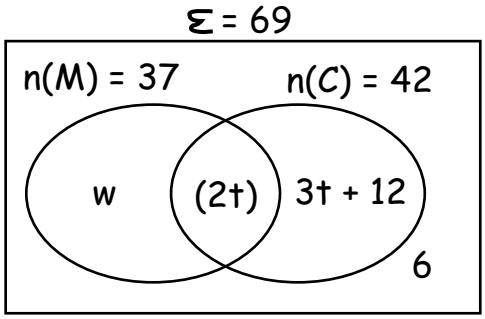


SECTION B (60 MARKS)

21.(a) The sum of three consecutive whole numbers is 48. If the biggest number is n, find the value of n.

(b) Work out: $15 \div 3 - 45 + 50$

22. The venn diagram below shows the number of farmers who grow maize (M) and coffee (C) in a certain village. Use it to answer questions that follow.



(a) Find the value of t.

(b) Calculate the value of w.

(c) Find the number of farmers who do not grow maize.

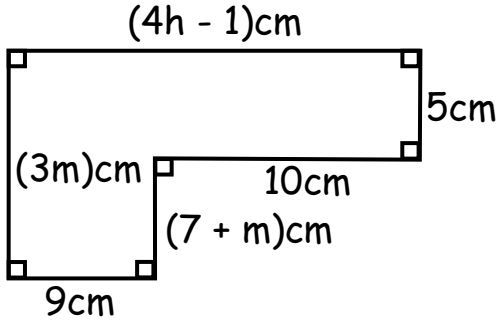
23. During a certain month, the exchange rate at a forex bureau was as shown in the table below. Use it to answer the questions that follows;

CURRENCY	BUYING RATE	SELLING RATE
1 US dollar ($)	Ugsh. 3,700	Ugsh. 3,750
1 Ksh	Ugsh. 30	Ugsh. 32
1 Pound (£)	Ugsh. 4,550	Ugsh. 4,600

(a) How much money in Uganda shillings can I get in exchange for 135 Us dollars?

(b) How much pounds (£) are equivalent to Ksh. 230,000?

24. Use the figure below to answer questions that follow.



(a) Find the value of m.

(b) What is the value of h.

(c) Calculate the perimeter of the whole figure.

25. Of all the candidates registered in a school, 25% passed in Division I and the rest in Division II. $\frac{1}{5}$ of those who passed in Division I were boys and the ratio of girls to boys for those who passed in Division II was 3:2.

(a) Given that 54 boys passed in Division II, how many candidates registered in that school altogether?

(b) How many boys passed in Division one (I)?

26.(a) Given that the prime factors of m are $F_m = \{2_1, 3_1, 3_2, 5_1\}$ find the value of m.

(b) Find the GCF of 24 and 36.

27. A sailor sailed Westwards from Port T to port Q a distance of 45km away from port Q he then changed course and sailed Southwards at a speed of 45kh/hr for $1\frac{1}{2}$ hours to landing site P.

(a) Draw a sketch showing the position of the three places.

(b) Using a scale of 1cm representing 9km, draw an accurate diagram showing the movement.

(c) What is the shortest distance from port T to landing site P?

28.(a) Ten men can finish a piece of work in 8 days. How many more men are required to complete the work in 5 days while working at the same rate?

(b) Express 37 $\frac{1}{2}$% as fraction in its simplest form.

29. The table below shows the marks scored by a set of candidates in mock exams. Study and use it to answer questions that follow.

MARKS	80%	60%	70%	90%
FREQUENCY	2	b	1	3

(a) Given that the average mark was 74%, find the value of b.

(b) Calculate the median mark.

30. The perimeter of a rhombus ABCD is 52cm. The length of its diagonal $\overline{AC}$ = 10CM.

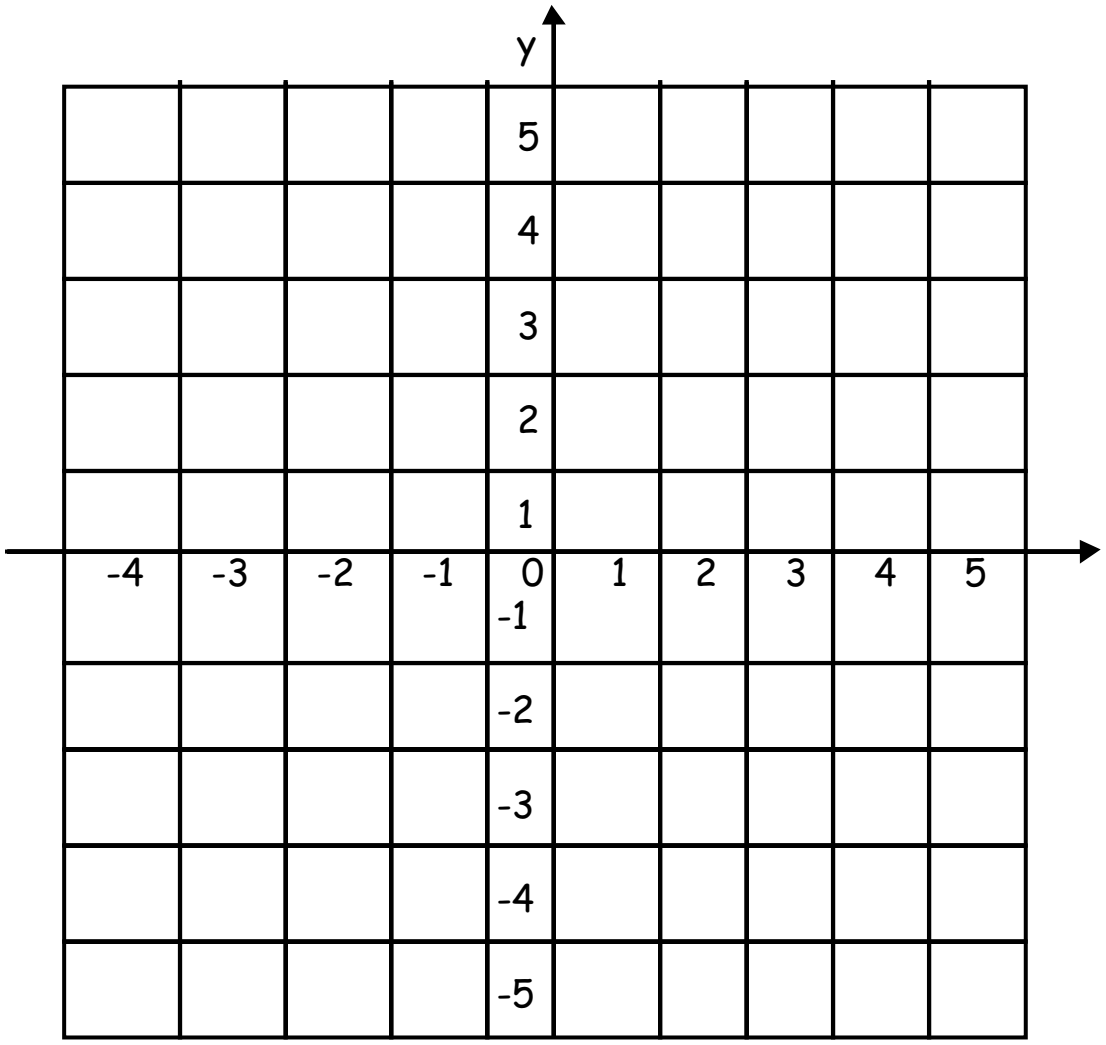
(a) Find the length of diagonal BD.

(b) Calculate the area of the rhombus.

31.(a) Given that a = 4, b = 3 and C = -8. Find the value of $\frac{ab-c}{a}$

(b) Solve 3(P - 9) - (P + 5) = 4

32.(a) On the grid below, plot the following points:
A(2,2), B(2, -1), C(-2,2) and D(-2,2).



(b) Join the points: A to B, B to C, C to D and D to A. Find the area of the figure.

End