



KITGUM MUNICIPAL COUNCIL EXAMINATION COMMITTEE

PRIMARY LEAVING MOCK EXAMINATION 2023

MATHEMATICS

Time allowed: 2 Hours 30 Minutes

Index No.	Random No.						Person No.		

Candidate's Name.....

Candidate's Signature.....

District:

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully:

1. This paper has two sections; **A** and **B**
2. Section A has **20 questions**. (40marks)
3. Section B has **12 questions**. (60 marks)
4. All the working for both section **A** and **B** must be shown in the space provided.
5. All the working must be done using a **blue** or **black** ball-point pen or fountain pen. Diagram should be drawn in pencil.
6. Unnecessary changes of work may lead to **loss of marks**.
7. Any handwriting that cannot easily be read may lead to **loss of marks**.
8. Do not fill anything in the boxes indicated. "**For Examiners' Use only**" and those inside the question papers.

FOR EXAMINERS' USE ONLY		
QN NO.	MARK	INITIAL
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

Turn Over

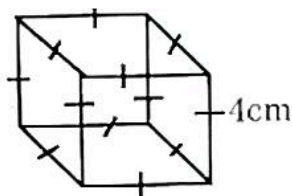
SECTION A: (40 MARKS)

1. Subtract: **79 - 42**

2. Write **6409** in words.

3. Simplify: **$-6 + -4$**

4. Calculate the total length of the cube below.

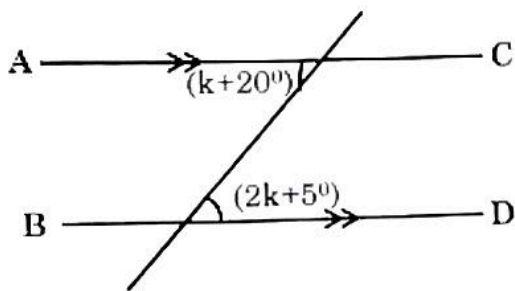


5. Given that $Q = \{\text{all prime numbers less than } 10\}$, how many subsets are in set Q ?

6. In a class, there are 24 girls and 36 boys. What is the fraction of boys in the class?

7. Solve: $7 = 2x + 1$

8. In the figure below, \overline{AC} is parallel to \overline{BD} . Find the value of k .



9. Express **2:47p.m.** in the **24hour** clock system.

10. Find the product of the 4th triangular number and the 6th prime number.

11. Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of **135°** .
12. Workout the median of **2, -8, -1, 0, 3, 6**.
13. Write the number that has been written in standard form to give **9.54×10^3**
14. If $x = a$ **half** and $y = a$ **fifth**. Find the sum of x and y .
15. A trader bought two similar bags for sh. 120,000. At what price must he sell each bag in order to get a total profit of sh. 10,000?

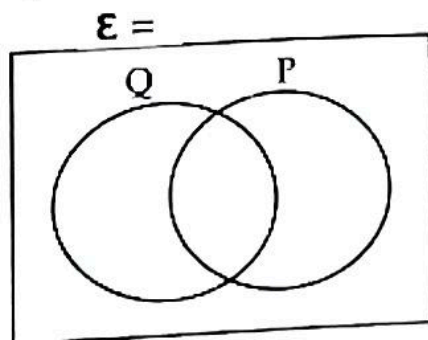
16. A motorist covered 80km in 30minutes. Calculate his speed in metres per second.

17. Convert 123_{five} to base ten.

18. Given that $a = -3$ and $b = 4$, find the value of $a^2 - b$.

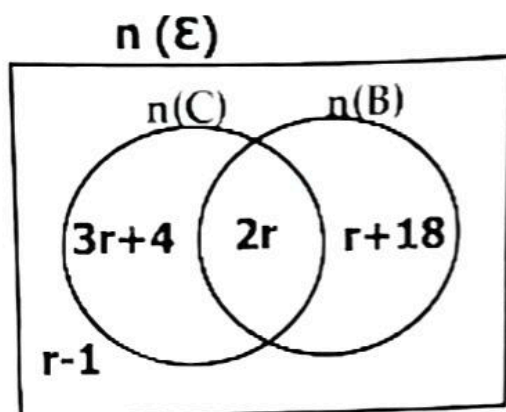
19. Work out the circumference of a circle whose diameter is 14metres.

20. On the Venn diagram below, shade the complement of QUP.



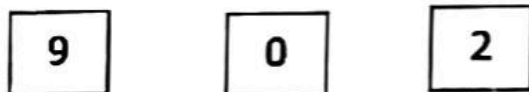
SECTION B

21. The Venn diagram below shows the number of guests that ate chicken (**C**) and beef (**B**) at a certain party.



- (a) If **33** guests did not eat chicken, find the value of **r**. (3marks)
- (b) How many guests attended the party? (2marks)

22. Cards were displayed having numbers as shown below.



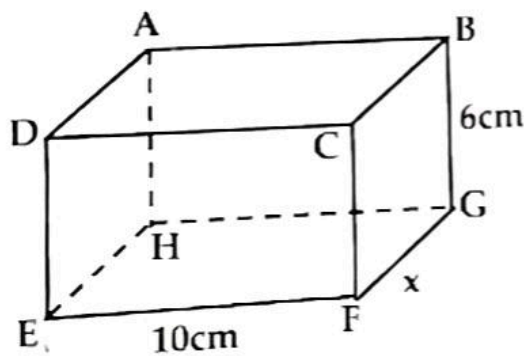
- (a) Write all the 3 digits numbers formed that are greater than 900. (2marks)
- (b) Workout the sum of the largest and smallest 3digit numbers formed using the digits on the cards. (3marks)

23. (a) Add:
$$\begin{array}{r} 1\ 2\ 1_{\text{three}} \\ +\ 2\ 2_{\text{three}} \\ \hline \end{array}$$

(2marks)

(b) Given that $101_y = 1101_{\text{three}}$. Find the value of the base represented by letter **y**.
(3marks)

24. The figure below is a cuboid. The area of the two shapes **ABCD** and **EFCD** is 100cm^2 .



(a) Find the value of **x**.

(3marks)

(b) Calculate the volume of the above solid.

(2marks)

(a)

25. Okello drove from Kampala to Kyotera at an average speed of 72km/h for 2hours 30 minutes. He then drove back to Kampala using the same route at an average speed of 90km/h.

(2marks)

(a) How far is Kampala from Kyotera?

(b) Calculate Mondo's average speed for the whole journey.

(3marks)

26. Use the information below at a certain forex bureau to answer the questions that follow.

1Kenya shilling = Ug.sh.32

1US dollar = Ugsh.3600

1 British pound sterling = Ugsh.4800

(a) How much in Uganda shillings is K.sh.1500?

(2marks)

(b) If a trader had 300 pounds and exchanged for US dollar, how many dollars did the trader get? (3marks)

27.(a) Find the square root of $\frac{196}{169}$.

(2marks)

(b) The LCM and GCF of two numbers are **72** and **6** respectively. If one of the numbers is **24**, find the second number. (2marks)

28. (a) Using a ruler, a sharp pencil and a pair of compasses only, construct a triangle $\triangle COW$ in which $CO = 7.5\text{cm}$, $\angle OCW = 30^\circ$ and $\angle COW = 120^\circ$. (4marks)

(b) Measure \overline{OW} (1mark)

29. A woman used $\frac{1}{5}$ of her monthly salary to buy food, $\frac{1}{2}$ of the remainder to pay rent and saved the rest.

(a) Find the fraction of her salary which was saved. (3marks)

- (b) If she saved sh. 400,000, how much is her monthly income?
(2marks)

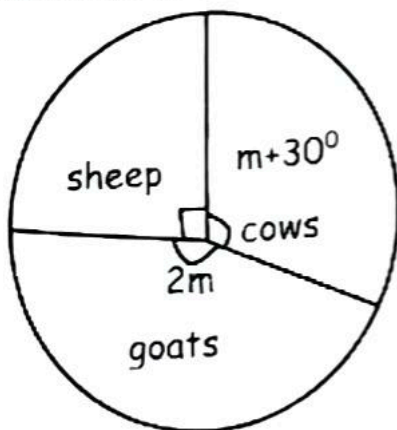
30. A book costs 4 times the cost of a pencil and a pen cost sh.800 less than the cost of a book. The three items cost the total amount of sh.3700.

- a) How much money does one book cost? (3marks)

- (b) Find the cost of a pen. (2marks)

31. The pie-chart below shows the distribution of different animals on Odur's farm. Use it to answer the questions that follow.

- (a) Find the value of m . (3marks)

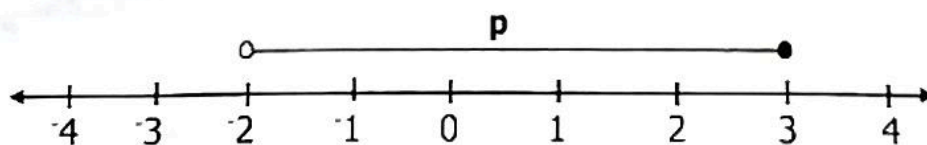


(b) If there are 440 cows on the farm, how many animals are on the farm altogether? (2marks)

32.a) Work out the additive inverse of -7 (1marks)

(b) If today is Friday, what day of the week was it 15 days ago? (2marks)

(c) Study the number line below and write the inequality represented by letter **p**. (2mark)



***** END *****