KIREKA GRAMMAR JUNIOR SCHOOL

MID-TERM TWO EXAMINATION

PRIMARY SEVEN

MATHEMATICS

Time Allowed :2 hours 30 minutes

Index No.

Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

Read the following instructions carefully:

1. Do not write your **school** of **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.
3. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. **No calculators** are allowed in the examination room
6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks.**
6. Do not fill anything in the table indicated: **"for examiner's use only"** and boxes inside the question paper.

FOR EXAMINER'S USE ONLY

Qn. No	MARK	EXR'S NO.
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION: A (40marks)

1)Workout: 86 – 75

2)Write CCXLV in Hindu – Arabic numerals.

3)Given that set K = {a, b, c }, Find the number of proper subsets in set K.

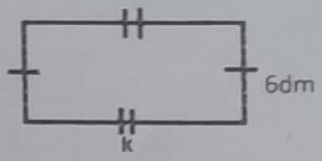
4)Prime factorise 36 and give your answer in power form.

5)Express 0.00432 in standard form.

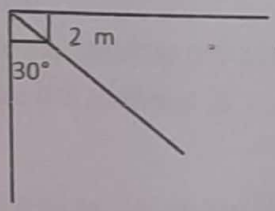
6)10 pencils cost sh. 7000, how much will 4 similar pencils cost?

7)Simplify: $^{-}3 + {}^{-}5$.

8)The perimeter of a rectangle below is 42dm. if its width is 6dm. Find its length.



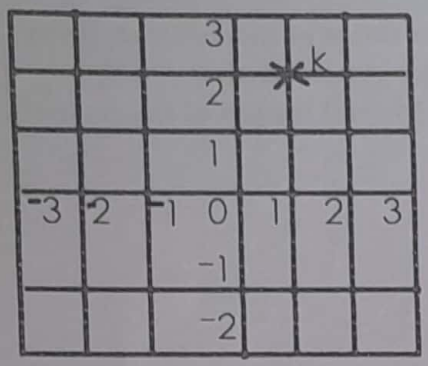
9)In the figure below, workout the value of m in degrees.



10)Write in short form.
$(7x10^{3})+(3x10^{2})+(5x10^{0})+(2x10^{-1})$

11) Increase sh. 2000 in the ratio of 5:4.

12) Identify point k on the grid.



13)Simplify: $4x - 7y + 9y + 2x$.

14)In the space below, construct an angle of 60^0 using a ruler, a sharp pencil and a pair of compasses.

15)Makwasi scored the following points while he was playing Dats:
70, 25, 40, 35, 50 and 60 respectively. Find Makwasi's median score.

16)A cyclist moving at 60km/hr covered a certain distance in just 2½ hours. Find the distance he covered.

17)Workout:

(13x5)-(3x5) using distributive property.

18) $\frac{3}{5}$ of a number is 99. What is the number?

19)Given that  represents 4 cups. Draw pictures to represent 20 cups.

20)Find the missing number in the sequence below.

1, 3, 9, 27, _____

SECTION B (60 marks)

21)a) Solve for P in the equation below. (2marks)

$\frac{2}{5}p + 4 = 8$

(b) Kissa is thrice as old as Kityo. If the difference between their age is 40years. How old is each of them now? (3marks)

22)a) What is the biggest number that can be formed using digits:

2, 6, 3, 9 and 4? (1mks)

b) What is the place value of the underlined digit? (1mk)

834.6<u>5</u>

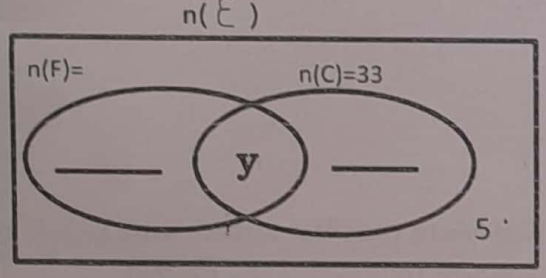
c)Round off 28.57 to the nearest tens. (2marks)

23 (a) Workout $\frac{4.8 \times 0.6}{1.6 \times 0.2}$ (3mks)

(b) Simplify: $\frac{1}{2} \times \frac{2}{3} \div \frac{3}{4}$ (2mks)

24)In a class, 2y eat fish only ,33 eat cassava (C) and y eat both Fish and Cassava while 5 eat neither of the dishes.

a) Complete the Venn diagram below. 2mks)



b)If the number of pupils who eat fish only are equal; to the number of pupils who eat cassava only, find the value of y. (2mks)

c)What is the probability of picking at random a member who eat both fish and cassava? (2mks)

25)Using a sharp pencil, a ruler and a pair of compasses only, construct a triangle ABC where line AB=8cm angle ABC=60^0 and angle BAC=45^0. Drop a perpendicular bisector from point C to meet line AB at P. (4mks)

6)Three teachers Male, Matte and latata shared some exercise books in the tio of 2:5:3 respectively. If Matte got 120 xercise books;

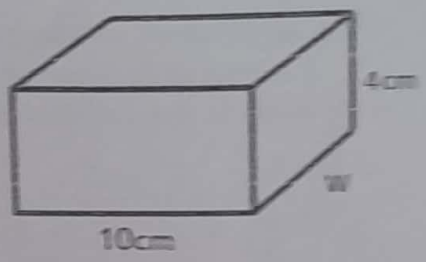
)How many books did they share ltogether? (3marks)

b)Express Matte's share as a percentage of the total. (2marks)

27)Nalugwa went shopping and bought the following items.
2kg of sugar at sh. 3800 per kg.
1½ kgs of meat at sh. 10,000@
3litres of milk at sh. 7500
2 loaves of bread at sh. 4500 each.
a)Calculate her total expenditure. (4marks)

b)If she was given 10% discount, how m did she pay? (2marks)

28)Study the figure below and answer the questions that follow. The volume of the cuboid is 240cm³.

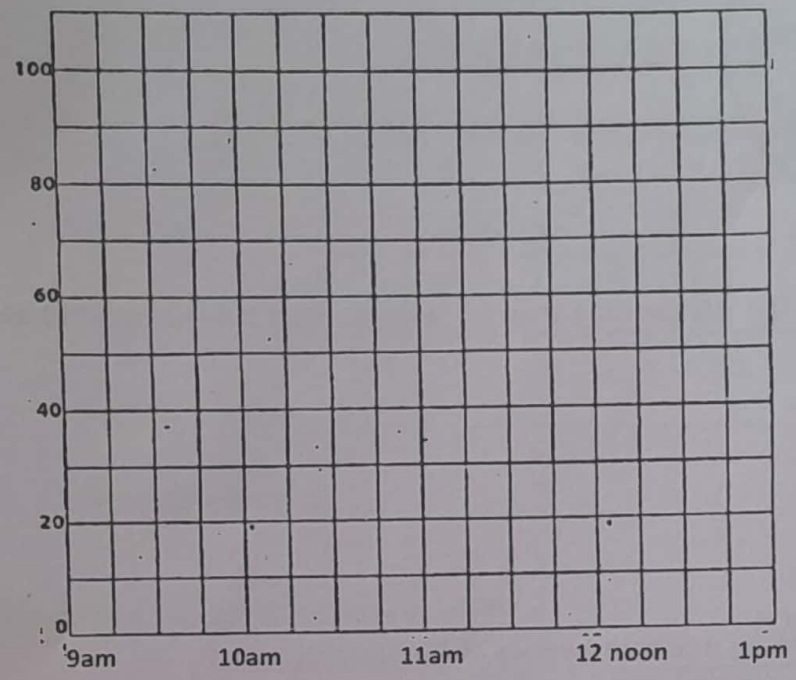


a)Find the value of W. (2mks)

b)Calculate the total surface area (T.S.A) of the above figure. (3mks)

29) A cyclist left at 9:00 a.m K for M which is 100km away. He rode for $1\frac{1}{2}$ hours at a steady speed of 40km/hr. He rested at L for $\frac{1}{2}$ an hour. He resumed his journey at a speed of 20km/hr for 2 hours.

a) Show the journey on the graph. **(3mks)**



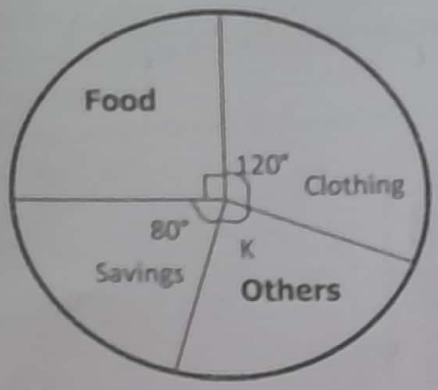
b) Calculate his average speed for the whole journey. **(2mks)**

30) Complete the table of line y = x-2. **(4mks)**

x	2	____	-1	____
y	____	0	____	-2

31)The circle graph below shows how Mama Sam spends her monthly salary.

Use it to answer the questions that follow.



(a) Find the value of K. (3 marks)

b)If she spends more sh.400,000 on clothing than on savings, what is her salary? (3mks)

32) Kantinti scored the following marks in a series of Mathematics tests.

Marks	40	P	60	70
Number of pupils	2	2	5	1

a)How many pupils sat for the test? (2marks)

b)If the mean mark was 55, find the value of P. (3mark)

Good luck & Success!