KAHUNDE MODEL PRIMARY SCHOOL

PRE PLE SET ONE / TEN

2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	EMIS No.						Personal No.		

Pupil's Name: .....

Pupil's Signature: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B**has **12** questions. The paper has **12** printed pages altogether.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
6. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper

FOR **EXAMINERS' USE ONLY**		
Qn. No.	**MARKS**	**EXR'S NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 32		
TOTAL		

Turn Over

SECTION A: 40 MARKS

*Answer **all** the questions in this section.*

*Questions **1** to **20** carry **two** marks each.*

1. Work out: $\frac{1}{5} + \frac{3}{5}$

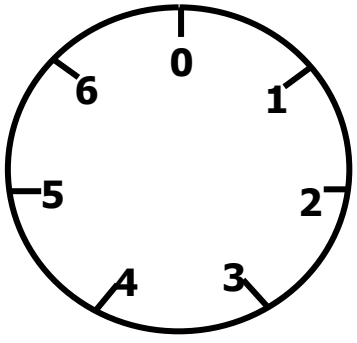
2. Write 57 in Roman numerals.

3. Work out the multiplicative inverse of 3.

4. Simplify: 5h – 10h + 8h

5. Mr. Opio used sh 9,600 to buy some books. If each book was bought at sh 1,200, how many books did he buy?

6. Show **3 + 6 =.....(finite 7)** on the dial below.



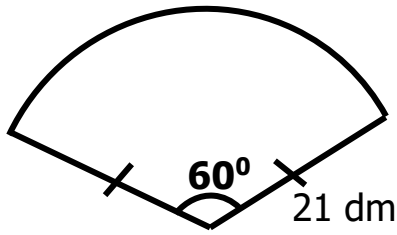
7. What numeral is expanded to give; $(5 \times 100) + (9 \times 10^{-2})$?

8. How many 250 gramme packets can be obtained from 2 kilogrammes of rice?

9. Round off 3742 to the nearest hundreds.

10. Using distributive property, work out $(79 \div 5) - (19 \div 5)$

11. Find the area of the given sector. (Take $\pi = \frac{22}{7}$)



12. Three men can build a hut in 20 days. How many more men are needed to build the same hut in 12 days working at the same rate?

13. Using a ruler and a pair of compasses only, construct an angle of 135^0 at point **R**.

14. Solve $(12_{three})^2$

15. A trader sold a watch at sh 35,000 and made a loss of sh 12,000. Find the price at which he bought the watch.

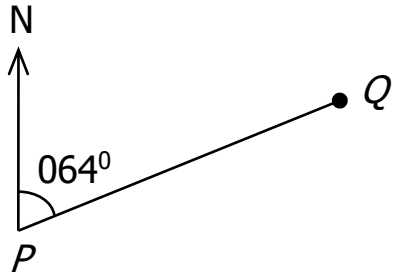
16. If $2^{g+1} = 16$, find the value f g.

17. Work out the median of p+2, p+4, p+1 and p+8.

18. Two numbers 30 and y are in the ratio of 3:1 respectively. Find the GCF of the numbers.

19. 20% of a number is equal to a quarter of 40. Find the number.

20. In the figure below, find the bearing of *P* from town *Q*.



SECTION B: 60 MARKS

*Answer **all** the questions in this section.*

Marks for each question are indicated in brackets.

21. At a party attended by 240 guests. 60% were served chicken and the rest were served fish.

(a) Find the percentage of guests that were served with fish.

(02 marks)

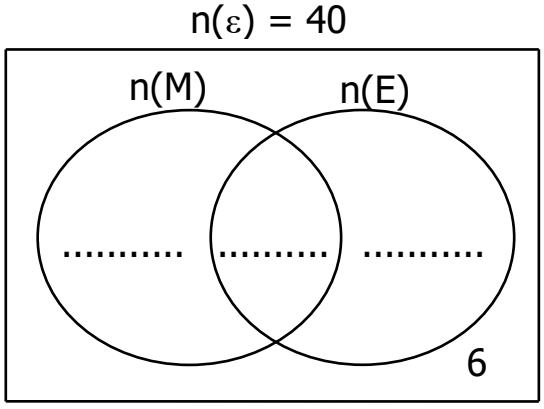
(b) How many more guets were served with chicken than fish?

(03 marks)

22. The average of three consecutive even numbers is 26. If the first number is y, find the numbers. *(04 marks)*

23. In a class of 40 pupils, 30 like Mathematics (M), 2k like English (E) and 14 like mathematics only while 6 like neither of the two subjects.

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



(b) Find the value of k. *(02 marks)*

24. Jane, Liz and Teo shared some apples in the ratio of 3:2:5 respectively. Both Jane and Teo shared a total of 112 apples.

(a) How many apples did Liz get? *(03 marks)*

(b) Given that every four apples were sold at sh 5,000, how much money would Jane earn from all her apples? *(03 marks)*

25. (a) Find the least number of cakes that can be shares by 8 boys or 12 girls leaving a remainder of 3 cakes. *(02 marks)*

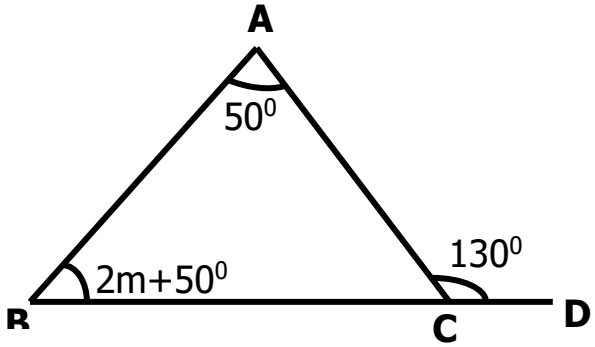
(b) Express 24 as a product of its prime factors. *(02 Marks)*

26. (a) Express 2.333... as a rational number in its lowest terms. *(02 marks)*

(b) Evaluate: $\frac{0.08 + 0.2}{0.9 - 0.5}$ *(03 marks)*

27. (a) What angle is a ninth of its supplement? *(03 marks)*

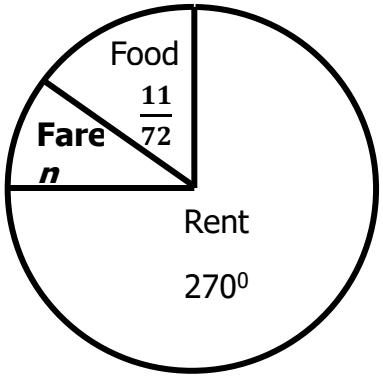
(b) In the figure below, angle ABC = $2m+20^0$, angle BAC = 50^0 and angle ACD = 130^0. Study the figure and answer the questions that follow.



(i) Calculate the size of angle ACB. *(01 mark)*

(ii) Find the value of m in degrees. *(01 mark)*

28. The pie chart below shows how Mr. Mbidde used his July salary. Study it and answer the questions that follow.



(a) Find the value of ***n***. *(03 marks)*

(b) Given that Mr. Mbidde earns sh 450,000 as his monthly salary, how much did he spend on food? *(02 marks)*

(c) Express the value of rent as a ratio of the whole salary.

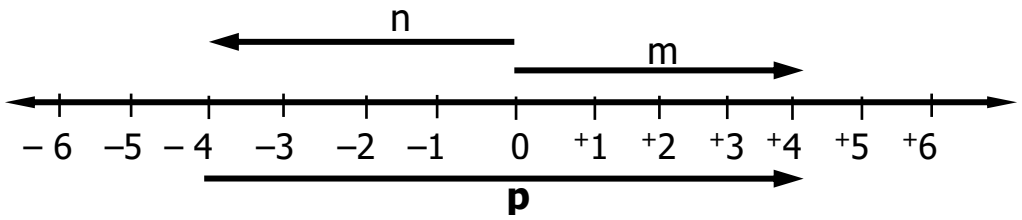
(01 mark)

29. A motorist started a journey of 109 km at 8:20 a.m. riding at 30 km/h. At 9:50 a.m., his motorcycle broke down and the repair took him half an hour. At what speed did the motorist ride after the repair if he reached his destination at 12:20 p.m.? *(04 marks)*

30. (a) Using a ruler and a pair of compasses only, construct a quadrilateral ABCD such that side AB = 8 cm, side AD = BC = 4 cm, and angle DAB = angle CBA = 60^0. Drop a perpendicular line from vertex D to meet side AB at H. *(05 marks)*

(b) Work out the perimeter of the quadrilateral. *(01 mark)*

31. Use the number line below to answer the questions that follow.



(a) Write the integers represented by arrows. *(01 mark each)*

(i) **m** = ...

(ii) **n** = ...

(iii) **p** = ...

(b) Write a mathematical sentence shown on the number line above. *(01 mark)*

32. Below is a price list. Use it to answer the questions that follow.

Quantity	**Price**
1 kg of sugar	sh 8,000
$\frac{1}{2}$ kg of rice	sh 2,000
1 kg of beans	sh 4,200
1 apple	sh 1,200

(a) Jane bought 2 kg of sugar, $1\frac{1}{2}$ kg of beans and 3 apples. How much did she pay altogether? *(04 marks)*

(b) How much money can one pay for 1,500 g of rice? *(02 marks)*

END