KASESE MUNICIPAL COUNCIL ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATIONS 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

RANDOM NO.						PERSONAL NO.		

Candidate's Name_____

Candidate's Signature_____

School Random No. | | | | | | |

Division ID. | | |

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 (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions in Section **A** and Section **B**. Answers must be written in the spaces provided.
5. All answers must be written using a blue or black ball-point pen or ink. Only diagrams may be done in pencil.
6. Unnecessary alternation of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. The use of electronic calculators and Mathematical tables is not allowed

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		

© 2024 Kasese Municipal Council Academic Board

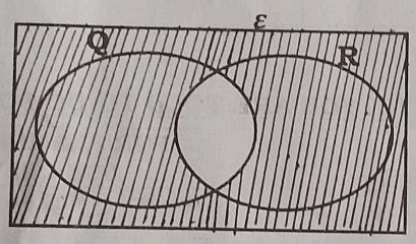
SECTION A (40 MARKS)

*Answer **all** the questions in this section:*
*Questions **1** to **20** carry two marks each.*

1. Work out: 98 - 35

2. Write in figures: Seven hundred fourteen thousand, ninety four.

3. **Describe the shaded region on the Venn diagram below.**



.....

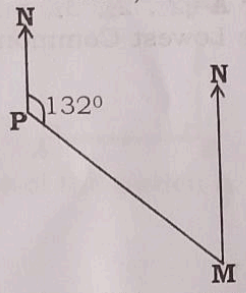
4. Given that **p**=3m and **m** = $\frac{1}{9}$, find the value of **p**.

5. A school pupil Enrollment was **600** pupils last year. The pupil Enrolment has increased in the ratio of **4:3**. Find the new pupil Enrolment of the school.

©KMCAB

6. Work out: -8 - -6

7. In the diagram below, the bearing of Town **M** from Town **P** is 132^0.



Find the bearing of Town **P** from Town **M**.

8. The probability of picking a red pen from a box of blue and red pens is $\frac{5}{7}$. If the box has a total of 35 pens, how many blue pens are in the box?

9. Express 30 metres per second as kilometres per hour.

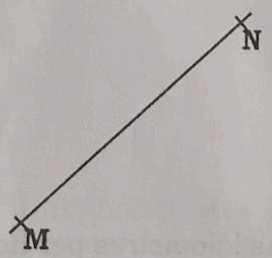
©KMCAB

10. How many 2000 shilling notes can be got from a 50,000 shilling note?

11. If the prime factors of the number **A**=$\{2_1, 2_2, 3_1, 5_1\}$ and the prime factors of **B**=$\{2_1, 3_1, 3_2, 5_1\}$, find the Lowest Common Multiple of the numbers **A** and **B**.

12. Convert 4300 grams to kilograms.

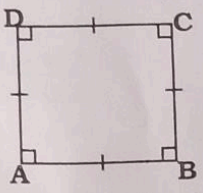
13. Using a pair of compasses and a ruler, bisect the line **MN** below.



14. A football match will start at 3:15p.m. Express the starting time of the match in the 24 hour clock system.

15. Write the number 169 in Roman Numerals.

16. The figure below is a square garden **ABCD.**



If the area of the garden is $121m^2$, find the length **AB.**

17. Work out: $5 + 8 \times 4$

18. The mean weight of 6 pupils is 40kg. When the seventh pupil joins them, their total weight becomes 294kg. Find the weight of the seventh pupil.

©KMCAB

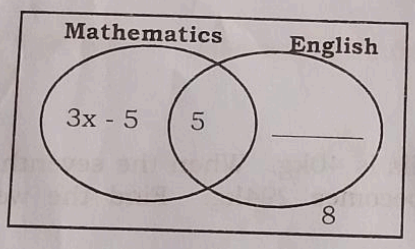
19. 18 pupils can clean a school compound in 4 hours. How many pupils are needed to clean the same compound in 3 hours if they work at the same rate?

20. Solve the inequality: $3 - 2k \leq 5$

SECTION B (60 MARKS)

21. In a class, (3x – 5) pupils like Mathematics (M) only, (2x-5) pupils like English (E) only, 15 pupils like both subjects while 8 pupils like neither of the two subjects.

(a) Complete the venn diagram below. ***(1mk)***



(b) If 25 pupils like only one subject, find the value of x. ***(2mks)***

(c) If a pup
pupil li

22. Work out: 6

23. Muhindo
- 1kg
- 3 litr
- 100

What per

How many
ours if they

) pupils like
pupils like

(1mk)

(2mks)

(c) If a pupil is selected at random, what is the probability that the pupil likes English? *(2mks)*

22. Work out: $\frac{6.8 + 4.7}{0.8 - 0.3}$ *(4mks)*

23. Muhindo was given sh.**15000** to buy:-
- 1kg 500g at sh.5000 per kilogram of sugar.
- 3 litres of milk at sh. **2000** per litre.
- 100 grams of tea leaves at sh.**3000** per kilogram.

What percentage of the money did Muhindo remain with? *(6mks)*

Turn over

MTC

©KMCAB

MTC

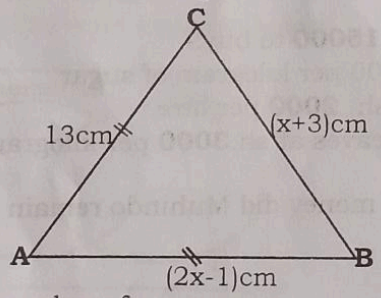
24. The table below shows the marks scored by a group of pupils in a test.

Marks	80	n	50	70
Number of pupils	2	4	3	1

(a) If the mean mark of the pupils was 56, find the mark represented by n. ***(4mks)***

(b) Work out the range of the marks. ***(1mk)***

25. Study the Isosceles triangle below.



(a) Find the value of x. ***(2mks)***

©KMCAB

©KMCAB

(b) Calculate the height of the triangle **ABC**. ***(3mks)***

26. A poultry farm produces 720 eggs everyday. The eggs are put on trays each containing 30 eggs.
(a) How many trays of eggs does the farm produce weekly? ***(2mks)***

(b) If each tray costs sh.25,000, how much money is earned from the farm on a daily basis? ***(2mks)***

27. The interior angles of a polygon are P, $(p+10^0)$, $(p+5^0)$, $(p+20^0)$ and $(p+15^0)$. Find the value of p. ***(5mks)***

©KMCAB

(1mk)

(2mks)

(2mks)

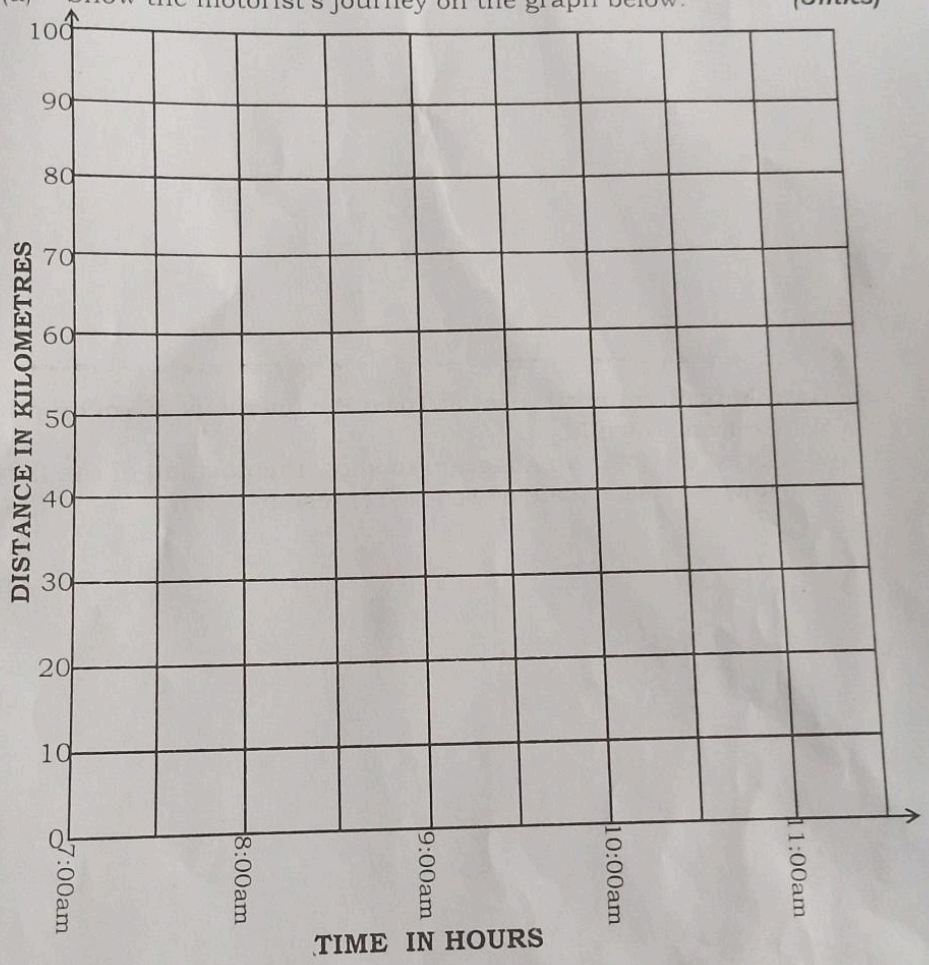
(3mks)

(2mks)

MTC

3C. A motorist left Town **P** for Town **Q** at 7:30a.m travelling at speed of 40km/h for 2 ½ hours. He rested at Town Q for 30 minutes, then returned to Town **P** reaching at 11:30a.m.

(a) Show the motorist's journey on the graph below. *(3mks)*



(b) Find the motorist's average speed for the whole journey. *(2mks)*

Turn over

©KMCAB

MTC

31. Three numbers are such that the median is 50. Their range is 55. If their sum is 145, find the product of the smallest number and the greatest number. ***(6mks)***

32. Town **M** is 60km north-east of Town **P**. Town L is 40km on a bearing of 120^0 from Town **M**.

(a) Draw an accurate diagram to show the position of the three towns. Use a scale of 1cm to represent 10km. ***(4mks)***

(b) What is the distance, in kilometres, between Town **P** and town **L**?

(2mks)

©KMÇAB