KASESE DISTRICT PRIMARY SCHOOL HEADTEACHERS' ASSOCIATION

PRIMARY LEAVING MOCK EXAMINATIONS 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

INDEX NO. | | | | | | | | | |

Candidate's Name_____

Candidate's Signature_____

School Name_____

Sub-county_____

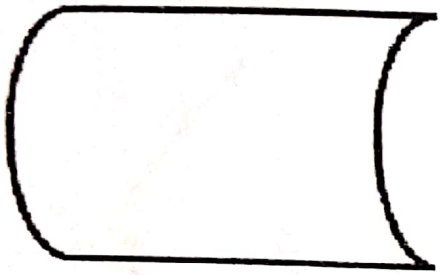
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

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	SIGN
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29- 30		
31-32		
Total		

7. Show and count the lines of folding symmetry.

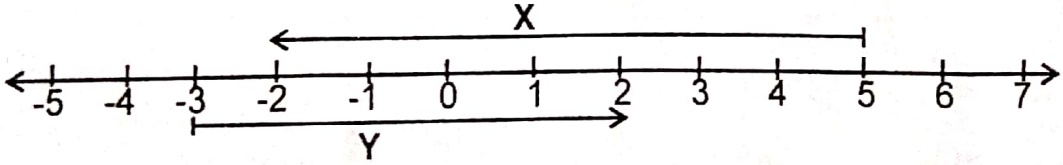


8. Round off 53.68 to the nearest one decimal place.

9. Work out the mean of 4x, 8, 12 and 8x -4.

10. Express a quarter to midnight in a 24 hour clock system.

11. Write the integers represented by the arrows on the numberline below.

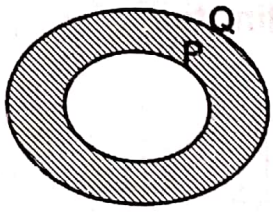


X = _____ Y= _____

SECTION A (40 MARKS)

1. Work out: 76 – 42

2. Describe the shaded part of the diagram.



3. Write in words: 72,043.

4. Work out $1\frac{1}{3} - \frac{3}{4}$

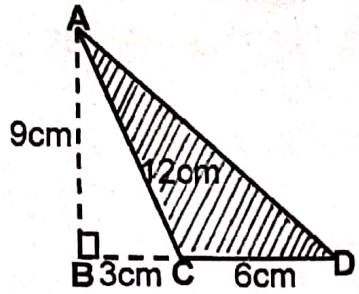
5. Fill in the missing numbers in the sequence below.

   4, 6, 8, _____, 10, _____

6. Simplify ½ (4x + 8) – (x – 9)

MTC

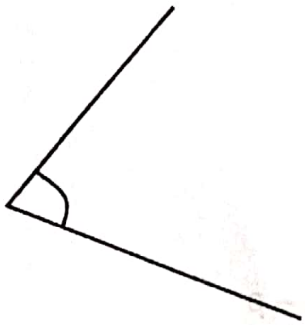
12. Find the area of triangle **ACD** in the figure below.



13. Saul had bank notes numbered consecutively from **PQ 0057200** to **PQ 0057299.** If each note is worth five thousand shillings, how much money did he have?

14. Express 33 ⅓% as a common fraction.

15. Using a pair of compasses and a ruler, bisect the angle below.



16. Find the range of -5, 0, $^{+}3$, $^{+}2$, $^{-}3$ and $^{-}1$.

17. A bus covered a distance of 90km in 1 ½ hours. Find its speed in kilometres per hour.

18. Below are cards with numbers on them.

2	5	3	7	9	6	4

Find the probability of picking a card with a number less than 5.

19. Convert 18_{ten} to binary.

20. Given that p=5 and k= ¯3, find the value of pk – p

SECTION B (60 MARKS)

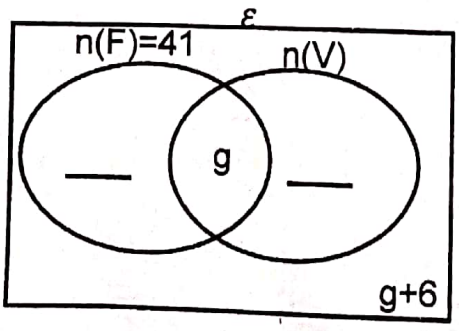
21. (a) Work out 1101_{two}
-110_{two}

(2mks)

(b) Given that: $202_k = 52_{ten}$, find the value of k. *(3mks)*

22. In a sports club, 41 people play foot ball (f), 3g+6 people play volley ball (V) only, g people play both games and g+6 play neither of the two games.
(a) Complete the venn diagram below.

(2mks)



MTC

(b) If the number of people who play volley only are twice those who play neither of the two games.

(2mks)

(c) How many people play volley ball?

(2mks)

23. The shopping bill below shows the expenditure of a man in a certain weekend. Complete it.

Items	Quantity	Unit cost	Amount
Meat	1 ½ kg	Sh.15000	Sh.
Rice	_____kg	Sh. 6000	Sh. 18000
Cooking oil	2 litres	Sh._____	Sh._____
Salt	3 packets	Sh. 1000	Sh._____
TOTAL EXPENDITURE			**Sh. 63500**

(5mks)

24. Given that **Y** is a number, when it is divided by 8, there is a remainder of 3, when it is divided by 5, there is a remainder of 2. Find the value of **Y**.

(4mks)

25. (a) Using a ruler, a pencil and a pair of compasses only, construct triangle **ABC** where line **AB** = 7cm, angle **ABC** =60^0 and **BC** = 5cm. Draw a perpendicular line from point **C** to meet **AB** at **M.**

(5mks)

(b) Measure length **CM**.

(1mk)

26. The sum of 4 consecutive add numbers is 96. If the last number is P. Find the numbers.

(4mks)

27. On a farm $\frac{1}{3}$ of the farm is covered by banana plantation, $\frac{2}{5}$ is covered with sugarcanes, $\frac{1}{6}$ is covered by cassava and the rest is left for grazing animals.

(a) What fraction is left for grazing animals?

(3mks)

(b) *If 10 hectares were left for grazing animals. What is the total size of the farm.*

(2mks)

28. (a) Solve the inequality: $9 < -3(k-1)$.

(2mks)

(b) Write the first three values of the solution set of the inequality above.

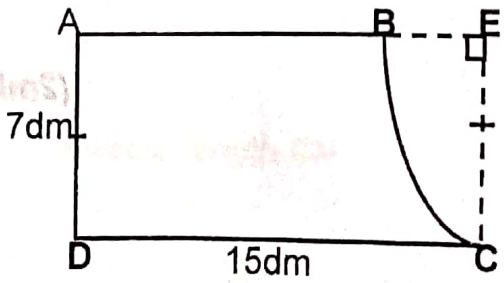
(1mk)

29. **Study the magic square below and find the missing number.**

24	____	____
29	36	____
____	40	30

(5mks)

30. Study the figure **ABCD** below and answer the questions that follow.



(a) Find the length of arc **BC**. ***(2mks)***

(b) Work out the perimeter of figure **ABCD**. ***(3mks)***

31. The table below shows a distance time table for a bus travelling from Kampala to Kasese.

Town	Distance	Arrival	Departure
Kampala	0km		8:30am
Mubende	45km	9:40am	9:50am
Kyenjojo	105km	11:00am	11:15am
Fortportal	120km	12:20pm	12:40pm
Kasese	75km	2:00pm	

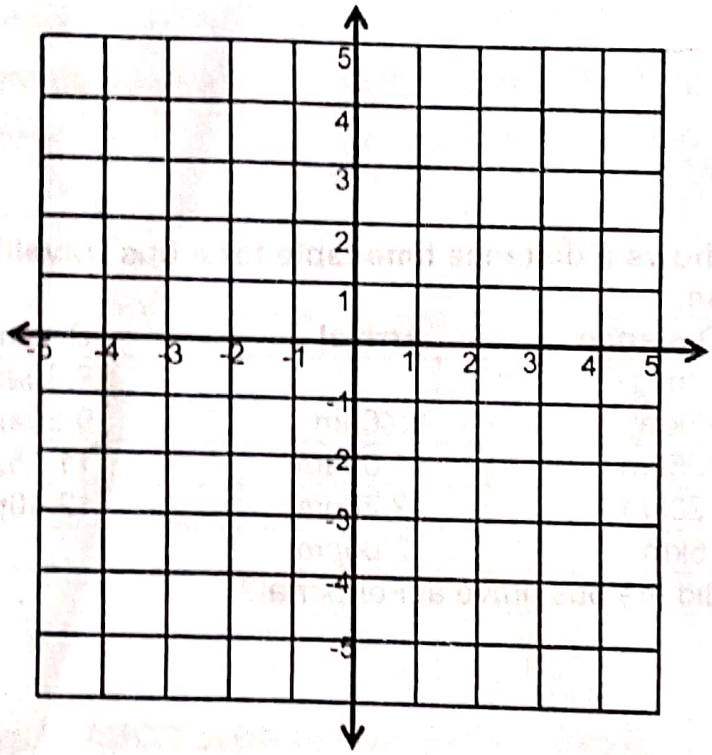
(a) At what time did the bus arrive at Fortportal? ***(1mk)***

(b) How long did the bus rest at Kyenjojo? ***(1mk)***

(c) Calculate the average speed of the bus from Mubende to Fortportal.

(3mks)

32. (a) Plot **P**($^{-}3$, $^{+}4$) **R**($^{+}1$, $^{+}4$) **Q**($^{-}3$, $^{-}1$) **S** ($^{+}5$, $^{-}1$) on the grid below.



(4mks)

(b) Join points **P** to **R**, **R** to **Q**, **R** to **S**, **S** to **Q**. ***(1mk)***

(c) Name the figure formed.

(1mk)

END