KYEGEGWA DISTRICT EDUCATION COMMITTEE

PRIMARY LEAVING MOCK EXAMINATION 2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	Random No.	Personal No.

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instructions carefully:

1. This paper has two sections: **A** and **B**. Section **A** has **20** short questions (40 marks) and section **B** has **12** questions **(60 marks)**.
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be allowed.
4. Unnecessary **changes** in your work and handwriting that cannot easily be read may lead to **loss of marks.**
5. Do **not** fill anything in the table indicated: **"For Examiners' use only"**

FOR EXAMINER'S USE ONLY		
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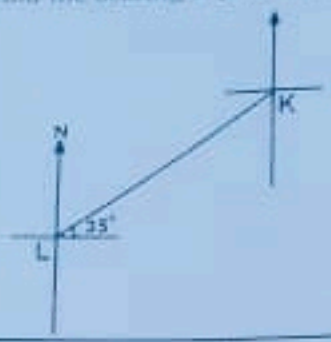
SECTION A: (40 MARKS)

1.	Add: 243 +154	2.	Write 93,602 in words.
3.	Given that A = {1, 2, 3, 4} B = {2, 3, 5, 8, 9}. Find n (A ∩ B)'	4.	Find the next number in the sequence 3, 5, 9, 15, 23, _____
5.	Today is Wednesday, what day of the week was it 166 days ago?	6.	Convert 28_{ten} to base five.
7.	Using a ruler and a pair of compasses only, construct an angle of 30°.	8.	In a class, the ratio of boys to girls is 3: 5, if there are 45 girls. Find the number of boys in the class.
9.	Simplify $-5 - -13$	10.	Calculate the distance covered by the motorist at a speed of 60km/hr in 2 ½ hours.
11.	A trader got a simple interest of sh. 96,000 after depositing sh. 800,000 in a bank an interest rate of 6% per annum. For how long was his money in the bank?		

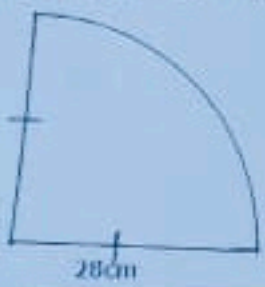
17. Find the bearing of point L from point K in the diagram below.



18. Solve the equation; $\frac{2}{5}m - 6 = 4$

19. Find the least number of sweets when divided among 8 boys or 6 girls equally leaves 4 sweets as remainder.

20. Find the perimeter of the quadrant below $\left(Take\ \pi = \frac{22}{7}\right)$

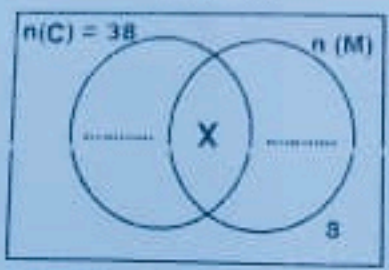


SECTION B (60 Marks)

21. At a party attended by 60 guests, 38 ate chicken (C), X + 4 ate meat only, X guests ate both meat and chicken while 8 did not eat any of the two items.

(a). Represent the above information on a Venn diagram below. (2 marks)

$n(\varepsilon) = 60$



(b) Find the value of X. (2 marks)

(c) If a guest is picked at random, what is the probability that the guest ate meat? (01 mark)

(a). Express the recurring decimal 0.45 45 ..... as common fraction.

(01 mark)

Simplify: $\frac{0.45 \times 0.35}{0.09 \times 0.5}$

(3 marks)

Mwesige went to market and bought the items as shown in the table below.

(a). Complete the table

(05 marks)

ITEM	QUANTITY	UNIT COST	AMOUNT
Beans	5 kg	Sh. 3,000 kg	Sh .....
Meat	..... kg	Sh. 12,000 per kg	Sh. 30,000
Sugar	3 kg	Sh. ..... Per kg	Sh. 13500
Cooking oil	500 ml	Sh. 6,000 per litre	Sh .....
	Total	Expenditure	Sh. .....

(b). If he went with sh. 70,000, how much did he remain with?

(01 mark)

Using a ruler, a pencil and a pair of compasses only, construct a parallelogram ABCD in which AB = 7cm, angle ABC = 120°, BC = 5cm

(04 marks)

(b). Measure the length of diagonal AC

(01 mark)

(b) Calculate its interior angle sum. (02 marks)

31. The table below shows the arrival and departure time for a bus that travels from Kyegegwa to Kampala daily.

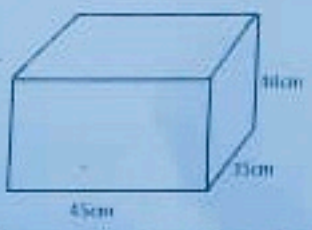
Town	Arrival time	Departure time
Kyegegwa		9 : 00 am
Mubende	10 : 00 am	10 : 35 am
Mityana	12 : 30 pm	12 : 45 pm
Kampala	2 : 30 pm	

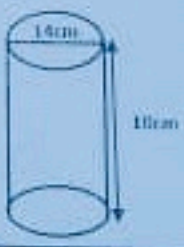
(a). At what time does the bus leave Kyegegwa?

(b) Find the total time taken by the bus to travel from Kyegegwa to Kampala. (02 marks))

(c) If the distance from Kyegegwa to Kampala is 275 km, Calculate the average speed of the bus for the whole journey. (03 marks)

32. In a factory, cylindrical tins of diameter 14cm and height 10cm are packed into a box measuring 45cm by 35cm by 40cm as shown below.





(c) How many cylindrical tins can be packed into the box? (2 marks)

(b) Workout the volume of the box which will be left unoccupied by the tins (Take $\pi = \frac{22}{7}$). (03 marks)

END