FLOURISH OF EXCELLENCE EXAMINATIONS BOARD

FLOURISH EXAMINATION SERISES (ITEM 8)

"WE ARE THE ONLY ROAD TO SUCCESS"

PRE PRIMARY LEAVING EXAMINATIONS

2023

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.	**Rando n No.**							**Personal No.**		

Candidate's Name: .....

Candidate's Signature: .....

School Random No. .....

District ID: .....

Read the instructions below 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. The paper has 15 printed pages altogether

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:(30 marks)

1. Work out: 36 + 45.

2. Given that A= {a, b, c, d} and B= {a, f, p, c, s}, find n (AuB)

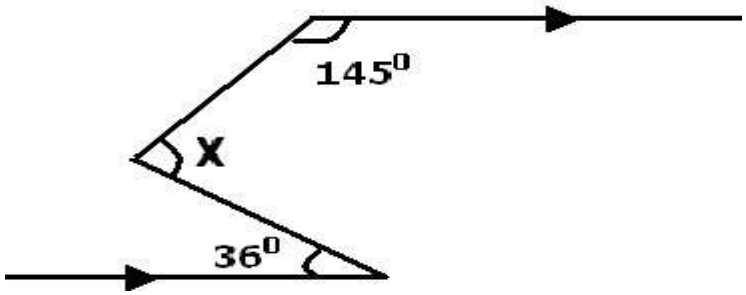
3. Find the next number in the sequence: 1, 4, 9, 16, _____.

4. By what percentage did 72 pupils decrease to become 48 pupils?

5. Change 650 millilitres to litres.

6. Work out the value of: $4^2 + 3^2 \times 9^0$

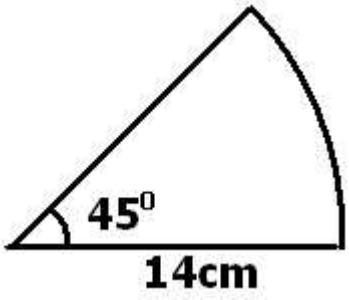
7. Calculate the size of angle marked X in the figure below.



8. The LCM of two numbers is 24 and their HCF is 4. If one of the numbers is 12, find the other number.

9. Change 14_{ten} to base three.

10. Calculate the area of the figure below.



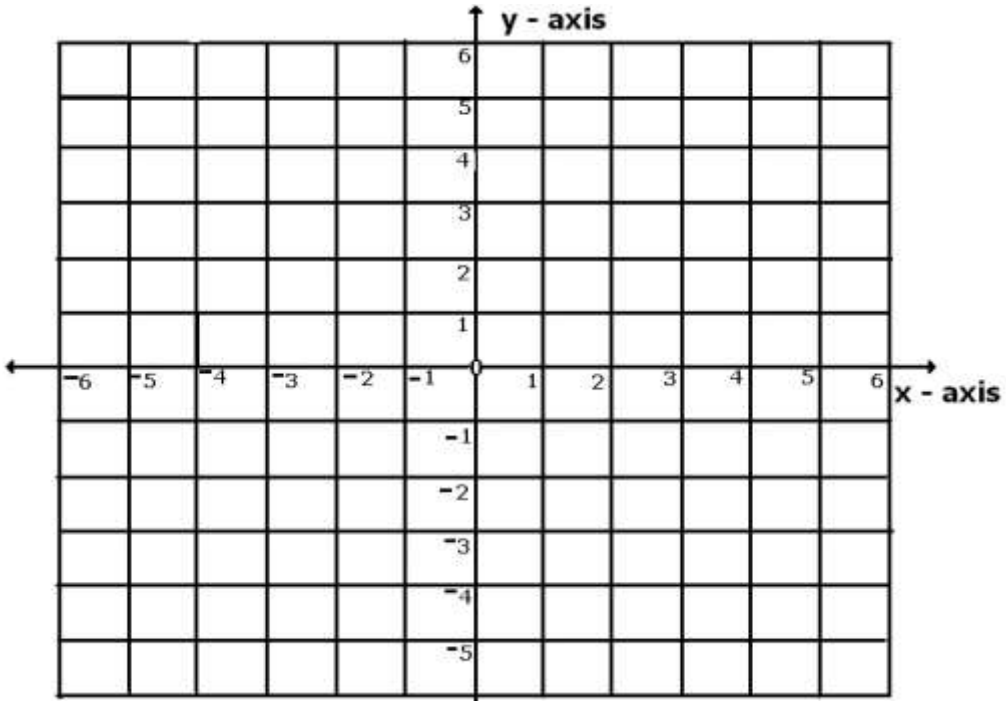
11. Given that seventy-eight K is a three-digit number which is divisible by 9. Find the digit represented by K.

12. Using a ruler and a pair of compasses only construct angle half of 90^0 in the space below.

13. Odong ran 100 metres in 10 seconds. How fast was he in kilometers per hour?

14. Kato bought a trouser at sh. **45,000** and then later sold it to Manana at a loss of sh.1500. find katos selling price.

15. Plot R ($\bar{2}$, +3) on the grid below.



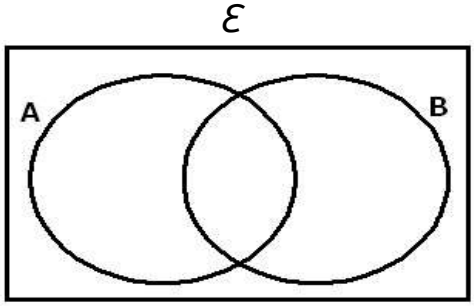
16. Prime factories 36 and write your answer in set notation.

17. Find the value of ½ a – 2b + c, when a = 8 , b = 2 and c = 3.

18. A motor cycle tyre of radius 35cm covered a distance of 4.4km. How many revolutions did it make? (take pi=$^{22}/_{7}$ as)

19. Akello bought soap at Sh. 4500 and sugar at Sh. 8500. She paid with a twenty-thousand-shilling note and she was given Sh. 9000 as change. How much more was she given than she should have received?

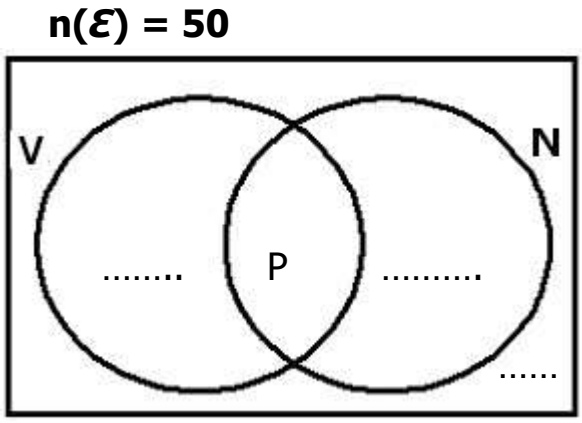
20. Shade $(B - A)'$ in the Venn diagram below.



Section B: (60 marks)

21. In a team of 40 players, 20 like Volley ball (V), 17 like Net ball (N), P like both games while 8 do not like any of the games.

(a) Represent the information above in the Venn diagram below. **(3 marks)**



(b) Work out the number of players who like both games **(2 marks)**

22. At St. peters schools, three bells ring at an interval of 30 minutes, 40 minutes and 60 minutes respectively.

(a) How long will the three bells take together to ring a gain. **(3 marks)**

(b) If the upper bell was rang at 8:30 am. How many minutes will the three bells ring together again? **(1 mark)**

23(a) Evaluate: $\frac{1.7 + 3.1}{0.25 \times 2.4}$ **(3 marks)**

(b) Simplify: $^{2}/_{3} \div ¾ + 1\ ½$ **(2 marks)**

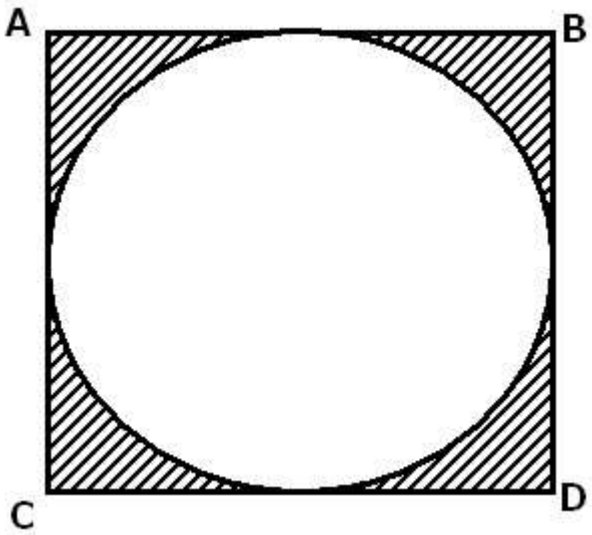
24(a) In the space provided below, use a pair of compasses, ruler and pencil only to construct a kite of diagonal EF= 6cm. diagonal GH bisects EF at K such that GK= 3cm FK =5cm. **(5 marks)**

25. In a tea factory, on Monday 36,000 packets were packed. On Tuesday, 1340 more packets were packed. But on Wednesday due to power failure, only one third of Monday's were packed.

(a) What was the number of packets packed on Tuesday? **(2 marks)**

(b) Calculate the total number of packets packed in three days. **(3 marks)**

26. Given that AB = BD = 14cm in the diagram below, calculate the area of the shaded part. (Take π as $^{22}/_{7}$).
(4 marks)



27. The table below shows the rates at which different currencies are bought and sold.

CURRENCY	BUYING (UG. Sh)	SELLING(UG. Sh)
1 Kenya shillings (Ksh)	24	26
1 US dollars ($)	3,900	3,950
1 Great Britain pound (£)	4,400	4,700

(a) Muko had £600 and exchanged them for Uganda shillings. Find the amount of money in Kenya shillings Muko got from the bank **(2 marks)**

(b) Oliver had US dollars 200 to exchange for Kenya shillings. Find the amount of money in Kenya shillings he got from the bank. **(2 marks)**

28. Maraka went shopping with 4notes of twenty thousand shillings each and bought 2 bunches of matooke at Sh.15,000 a bunch. 1 ½ kg of meat at Sh. 12,000 per kilo, 3kg of rice at Sh. 3,600 @ kilo , ¼ a sack of charcoal at Sh. 12,000.

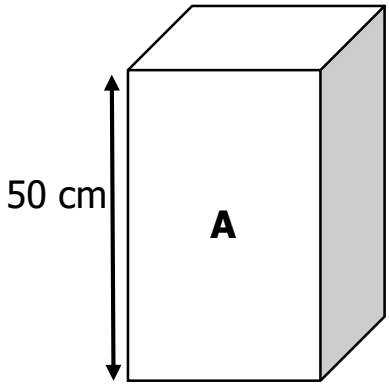
(a) Work out his total bill. **(4 marks)**

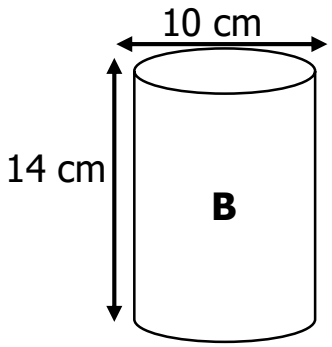
(b) If he was given a discount of 10% for paying cash, how much money did he receive as his change? **(2 marks)**

29(a) Solve for x in $5(4x + 6) = 6(4x - 1)$. **(2 marks)**

(b) Given that $3^{2y} \times 3 = 81$. Find the value of y. **(3 marks)**

30. 40 full containers of juice B fill container A. study and answer the questions that follow.



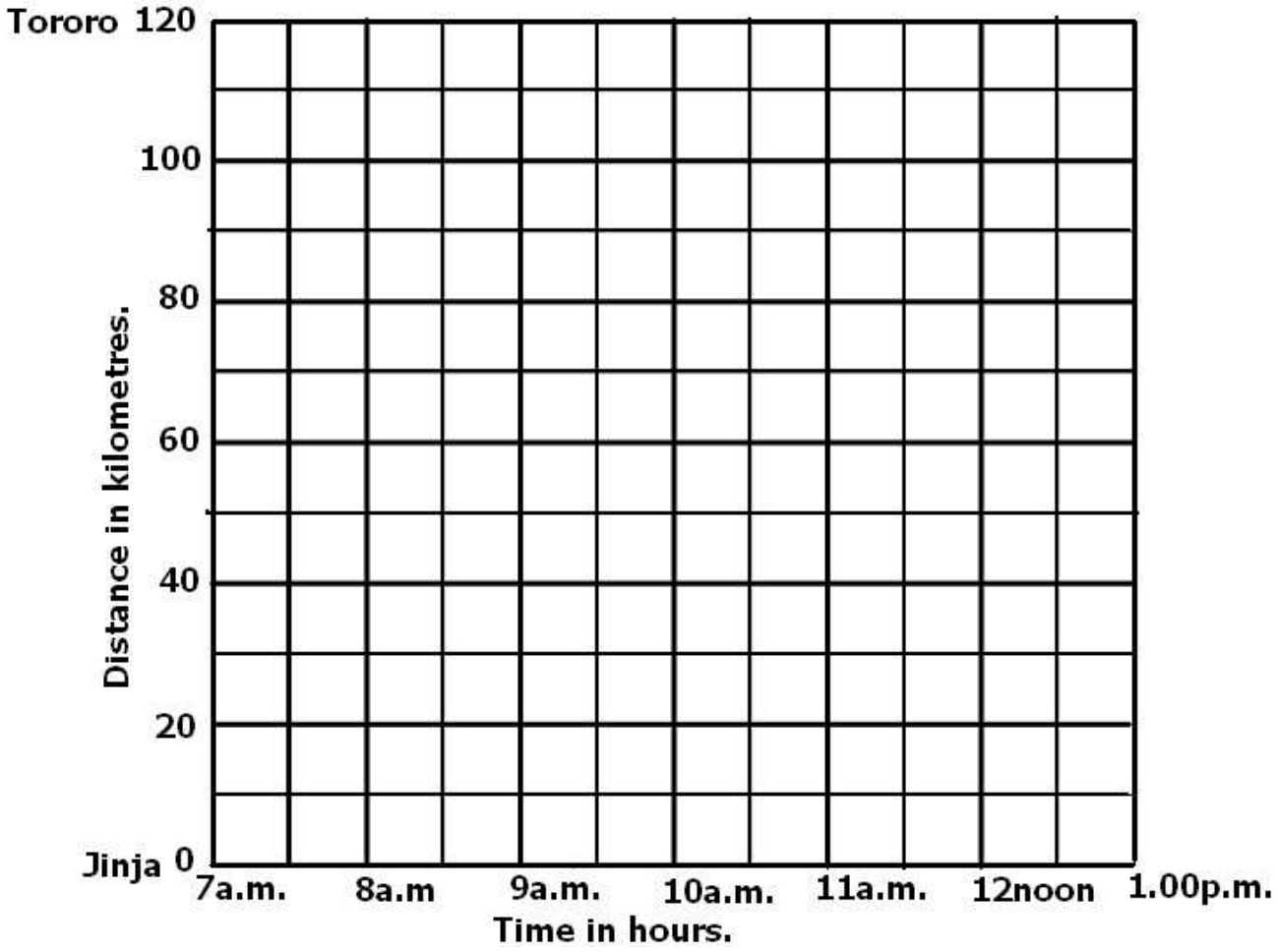


(a) Work out the volume of container B Use $\pi =$ [redacted] **(2 marks)**

(b) Calculate base area of container **A**. **(3 marks)**

31. Mr. Epidu left Jinja at 7:00 am and covered 50km in 1 hour to Iganga. He rested for ½ an hour and covered the next 40km in ½ an hour to Bugiri. He took a break of 30 minutes covering the remaining 30km to Tororo where he arrived at 10:00 am. He left Tororo at 11:00 a.m. and drove back to Jinja at a speed of 60 km per hour.

(a) Show Mr. Epidu's journey on the graph below. **(5 marks)**



32.(a) Subtract: $1\ 0\ 1\ 0_{two} - 1\ 1\ 1_{two}$ **(2 marks)**

(b) If today is Thursday, what day of the week will it be after 45 days?

(2 marks)

END