# NAMATABA TOWN COUNCIL ACADEMIC BOARD
## PRIMARY SEVEN MOCK EXAMINATION 2022
## MATHEMATICS
## PRIMARY SEVEN

*Time Allowed:* ***2hours 30 Minutes***

| RANDOM NO. | | | | | | PERSONAL NO. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

Candidate's Name: .....

Candidate's Signature: .....

***Read the following instruction carefully:***

1. The paper has **two** Sections: **A** and **B**
2. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or black ball point Pen or fountain pen. Any work done in pencil other than Graphs, pictures and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any hand writing that cannot easily be read may lead to loss of marks
7. Do not fill in the boxes indicated "For examiner's use only".

| FOR EXAMINER'S 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 | | |

***For Examiner's Use Only***

| *SECTION* | *EXAMINER'S MARKS* | *T/L MARKS* |
|---|---|---|
| **A** | | |
| **B** | | |
| **TOTAL** | | |

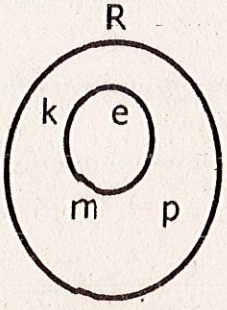
*Turn Over*

## SECTION A

1. Work out: 42 + 53

2. Write 90,909 in words

3. Calculate the number of subsets in set R below




4. Find the next number in the sequence below 42, 40, 36, 34, 30, .....

5. Work out: $1\frac{2}{5} \div \frac{1}{5}$

6. Take 4r-3 away from 8+6r

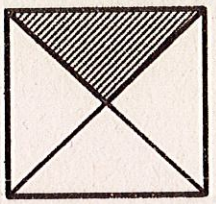
7. Simplify: $\dot{9} - \dot{5}$

8. Using a protractor, a well sharpened pencil and a ruler, draw an angle of $120^0$

9. In Kikuta village, there are 65 huts. Given that  represents 13 huts, draw a pictograph to represent the above information.

10. Simplify: $9 - 11 + 6 \div 2$

11. What percentage of the figure below is unshaded?



12. Express 50 as a product of its prime factors.

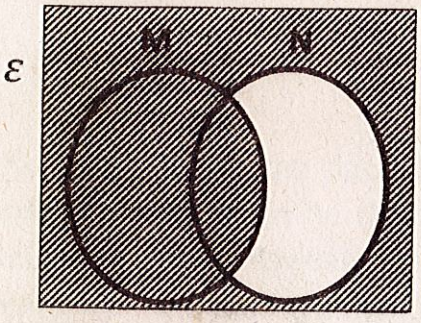
13. Given that a US dollar cost Ush.3560, find the amount in Uganda shillings one can pay for a TV set which costs US dollars 150.

14. Find the value of 2 in $4203_{five}$

15. The Executive meeting for DFCU Bank ended at 1:25pm. If it lasted for 3hours and 30minutes, when did it start?

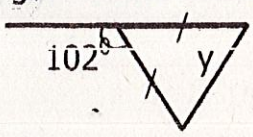
16. Solve the equation $2(k + 1) = 10$

17. Describe the shaded set region on the Venn diagram below.

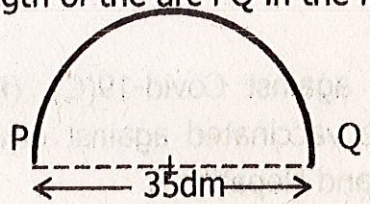



18. Four boys take 10 days to slash the compound. How long will eight boys take to slash the same compound working together at the same rate?

19. Study the figure below and calculate the value of Y




20. Find the length of the arc PQ in the figure below




## SECTION B

21. The sum of three consecutive odd numbers is 129.

(a) Find the numbers. (3marks)

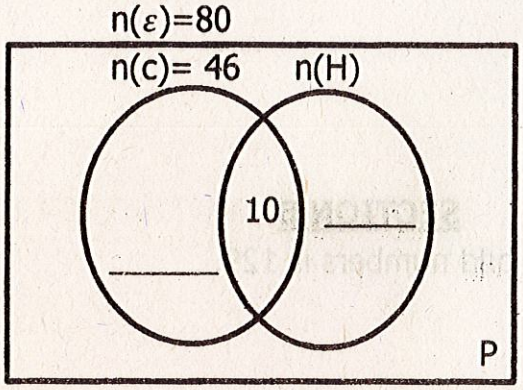
(b) Express the largest number in Roman numerals (2marks)

22. (a) Simplify $\frac{3.6 - 2.52}{0.4 \, x \, 0.018}$ (3marks)

(b) Simplify: $\frac{2}{3} - \frac{1}{6} of 1\frac{1}{2}$ (2marks)

23. In a group of 80 adults, 46 were vaccinated against Covid-19(C), (P+6) were vaccinated against Hepatitis B (H) only P were vaccinated against other disease while 10 were vaccinated against both Covid-19 and Hepatitis B.

(a) Use the above information to complete the Venn diagram below. (2marks)



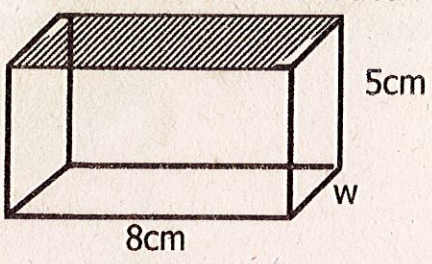

(b) Find the value of P. (2marks)

(c) If an adult is picked from the group, what is the chance of picking one who was vaccinated against Hepatitis B? (2marks)

24. (a) Solve the inequality and find its solution set: $3 + 2n > 1$ (3marks)

(b) If a= 5, b= ¯2 and c=6, evaluate $\frac{ac}{a+b}$ (2marks)

25. Given that the area of the shaded region is $56cm^2$




a) Find the value of W (2marks)

b) Calculate its total surface area. (3marks)

26. The table below shows the denominations number of notes and amount. Complete it carefully with correct working, if the grand total is Shs.154,000. (5marks)

| **Denomination** | **Number of notes** | **Amount** |
|---|---|---|
| Shs. 1,000 | 15 | Shs.15,000 |
| Shs.2,000 | 7 | Shs._____ |
| Shs.5,000 | _____ | Shs.45,000 |
| Shs._____ | 4 | Shs.40,000 |
| Shs.20,000 | _____ | Shs._____ |
| | **Total** | **Shs. 154,000** |

27. Athman allocated $\frac{1}{2}$ of his Land to Musa, $\frac{1}{4}$ of the remainder to Sarah and he remained with the rest.

(a) Find the fraction allocated to Sarah. (2marks)

(b) If sarah received 3 hectares, how much Land did Athman have? (2marks)

28. On a certain day, the class teacher bought some sweets to thank the pupils who had passed a test. When he shared among 6 pupils, 1 sweet remained; when he shared among 5 pupils, 4sweets remained and when he shared among 7pupils no sweet remained. Find the least number of sweets the class teacher bought. (4marks)

29. (a) Using a pair of compasses , a ruler and a well sharpened pencil, construct triangle DEN where DE = 8cm , angle DEN = $60^0$ and EN =6cm. (4marks)

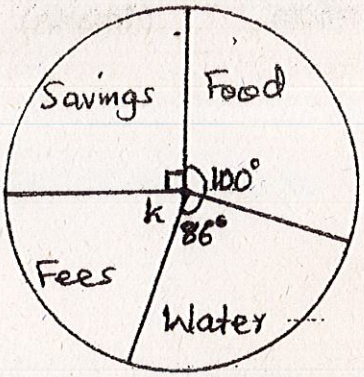
(b) Measure line ON. (1mark)

30. Dorah's age is $\frac{1}{3}$ that of her brother. In six years' time, the brother's age will be twice that of Dorah.

(a) How old is each of them now? (4marks)

(b) What was the brother's age 4 years ago? (1mark)

31. The pie-chart below shows Mr. Kalule's weekly savings and expenditure. Use it to answer the questions that follow




(a) Find the angle sector for fees. (3marks)

(b) If his weekly earning is sh.54,000, how much does he save in a month? (2marks)

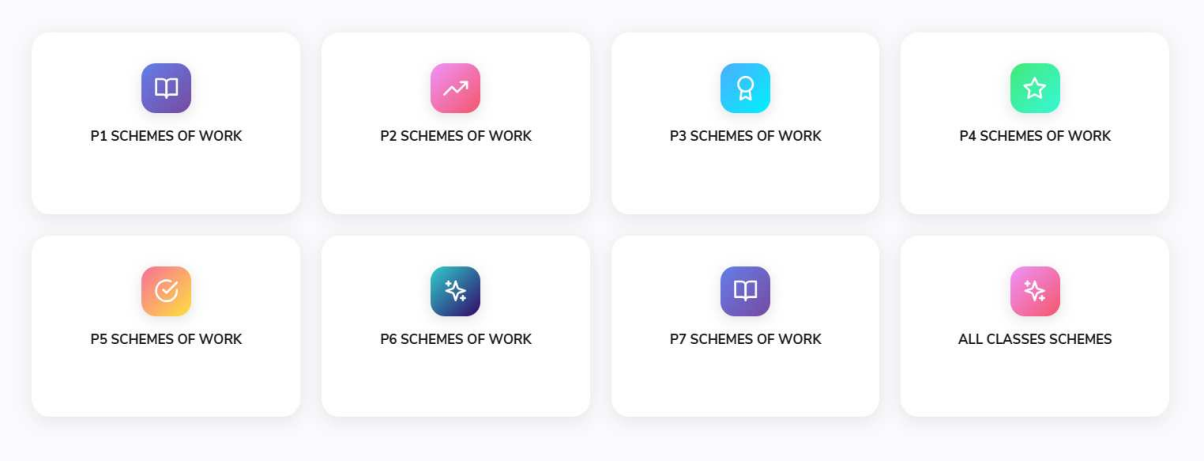
32. Josephat left Budaka driving at a steady speed of 116km/hr for $1\frac{1}{2}$ hours and then rested for 30minutes for the engine to cool. He then continued with his journey driving at a steady speed of 60km/h and covered the remaining 150km.

(a) Fins the distance he covered before resting. (2marks)

(b) Calculate Josephat's average speed for the whole journey. (3marks)

***= Good Luck=***

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