NAMAGUNGA PRIMARY BOARDING SCHOOL
MIDTERM ONE EXAMINATION, 2024
PRIMARY SEVEN - MATHEMATICS

Time allowed: 2 Hours 30 Minutes

Candidate's Name: .....

Date: ..... **Stream:** .....

Read the following instructions carefully:

1. This 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 anything in the boxes indicated "**For Examiner's Use Only**".

SECTION	EXAMINER'S MARKS	T/L MARKS
A		
B		
TOTAL		

"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		

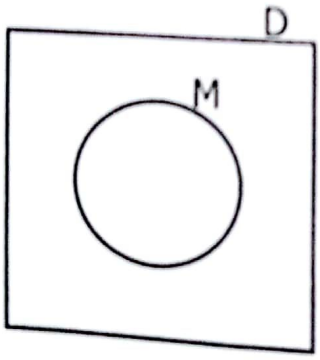
SECTION A (40 marks)

1. Add: $\frac{4}{7}$ to $\frac{5}{7}$

2. Write 49,015 in words.

3. Solve: $4 - y = 6$

4. Describe the relationship shown on the Venn diagram below.



5. Find the square of the missing number in the sequence below.

8, 9, 12, 18, 28, ...

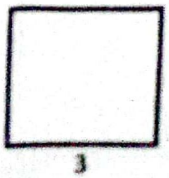
6. Muruuli collected mangoes as represented by the tallies below. How many mangoes did he collect ?

𝍸 𝍸 𝍸 𝍸 𝍸 |||

7. Work out : $^{-}4 - {}^{-}9$ using a number line.

8. Kaddu moved from Mazinga to Kyotera in 250 minutes. How many hours did he take moving ?

9. Using a ruler and a pair of compasses, construct an angle of 45°.

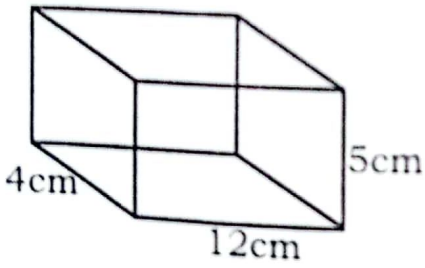


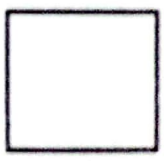
10. Ampaire had $\frac{2}{3}$ of the sugarcane, she gave $\frac{1}{4}$ of it to her friend Shama. How much sugarcane did she remain with ?

11. Using a dial method work out $4 - 7 = \ldots\ldots\ldots$ (mod 8) .

12. 12 men can dig a shamba in 5 days. How many more days will 10 men need to do the same work ?

13. Find the total length of the edges of the figure below.





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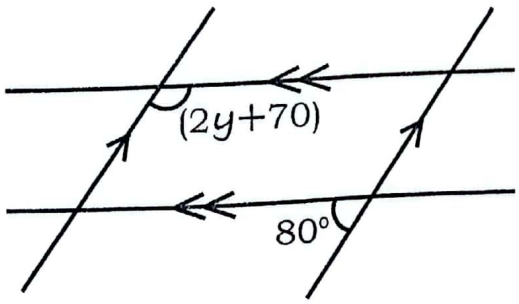
14. A motorist covered a distance of 200km from Mitooma to Mbarara at a steady speed of 60km/h. How long did the motorist take to reach Mbarara ?

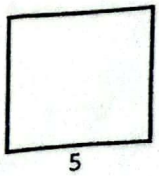
15. Find the smallest number that can be divided by either 6 or 8 leaving a remainder of 3 .

16. Calculate the number of elements in a set with 63 proper subsets.

17. Find the value of the unknown angle .



18. Round off 29·995 to two decimal places .



19. Akello had notes numbered consecutively from KY4864118 to KY4864217. If each note was worth sh. 20,000 , find the total amount Akello had .

20. Draw a net of a closed cylinder in the space below .

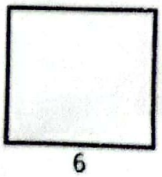
SECTION B (60 MARKS)

21(a) In a school, the ratio of boys to girls is 4:5 respectively. If there are 240 boys, how many more girls are there than boys ?

(3 marks)

(b) Simplify: $\frac{1}{4} + \frac{1}{5} \div 1\frac{2}{5}$

(2 marks)



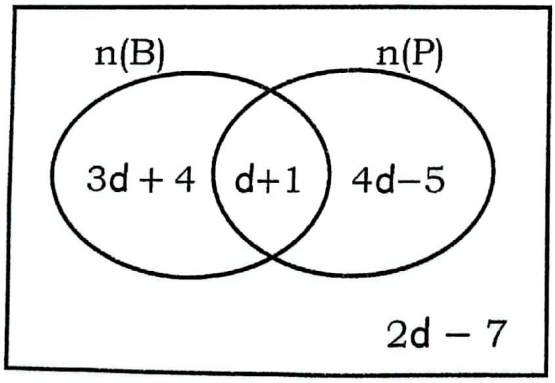
22(a) Igambi went shopping and bought the following items.

30 oranges at sh. 500 for every heap of 3 oranges.
500gm of salt at sh. 1,200 per kg .
2·5kg of sugar at sh. 4,000 each .
5kg of rice at sh, 22,500

(a) How much did she buy each kg of rice ? (2 marks)

(b) Calculate her total expenditure. (4 marks)

23. The Venn diagram below represents the number of pupils who eat beans (B) and peas (P) . Study and use it to answer questions that follow.



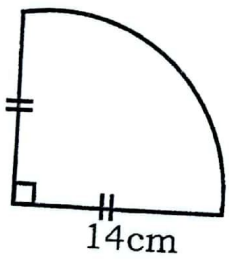
(a) If 40 pupils eat either beans of peas, find the value of d. (2 marks)

(b) Find the probability of selecting a pupil at random who does not eat peas. (2 marks)

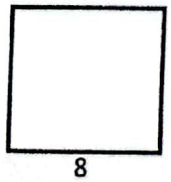
24(a) Given digits 4 5 0 9, express the least 4-digit numeral formed in an expanded form using powers. (2 marks)

(b) Find the square root of 1·96. (2 marks)

25(a) Work out the area of the figure below. (3 marks)



(b) Find the diameter of a circle whose circumference is 44dm. (Take $\pi = \frac{22}{7}$) (2 marks)



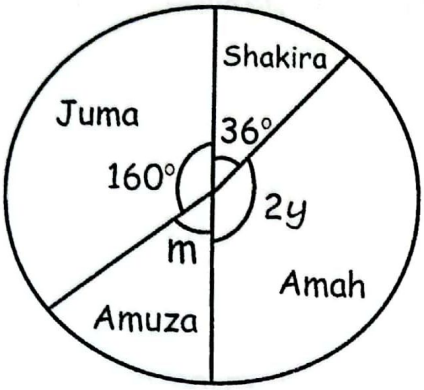
26(a) In an interview of 20 questions, 5 marks were awarded for every correct response and 2 marks were deducted for every wrong response. If Nobert passed 16 questions only, what was his score ? (3 marks)

(b) If Joan scored 58 marks, how many questions did she fail ? (2 marks)

27(a) Using a ruler, a pair of compasses and a sharp pencil only, construct triangle BCE where $\angle CEB = 45°$, $\overline{BE} = 10cm$ and $\overline{CE} = 8cm$. (4 marks)

(b) Find the length of BC. ..... (1 mark)

28(a) The pie chart below shows how Musa shared his 72 cows to his children. Use it to answer questions that follow.



(a) Find the value of m. (2 marks)

(b) Calculate the value of y. (2 marks)

(c) How many cows did Amah get ? (2 marks)

29. Guma and Aketch shared a certain amount of money in such a way that Guma got thrice as much as Aketch got. If the difference in their shares is sh. 18,000,

(a) find the amount each got . (3 marks)

(b) How much did they share altogether ? (2 marks)

30. The sum of three consecutive odd numbers is 81 .

(a) Find the numbers . (3 marks)

(b) Find the product of the first and the third numbers . (2 marks)

31(a) Given that $34_n = 112_{four}$, find the value of n . (3 marks)

(b) Work out: (2 marks)

$$\begin{array}{r} 2\ 3\ 3_{five} \\ +\ 2\ 3_{five} \\ \hline \end{array}$$

32(a) A motorist left town R for town W at 6:18 p.m. driving at a steady speed of 60km/h and covered 300km. At what time did he reach town W ? (3 marks)

(b) Express 19:39 hrs in 12-hour clock system. (2 marks)

END