

SEETA JUNIOR SCHOOL

PRE - PLE SET 2

2024

MATHEMATICS

PRIMARY SEVEN

Time Allowed: 2 hours 30 minutes

Index No.

:

RANDOM NO.						PERSONAL NO.		

Candidate's Name

:

.....

Candidate's Signature

:

.....

Emis No.

:

.....

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. 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 handwriting that cannot easily be read may lead to **loss of marks**.
7. Do **not** fill anything in the boxes indicated: "**For Examiners' Use Only**"

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 25		
26 - 27		
28 - 29		
30		
31 - 32		

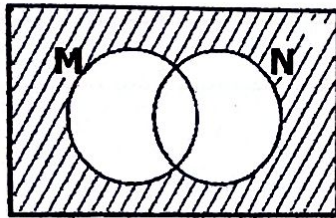
3

SECTION A (40 MARKS)

1. Workout: $75 - 32$

2. Collect like terms and simplify: $8m + 7n - 3m + 9n$

3. Describe the shaded region in the Venn diagram.



4. Round off 998761 to the nearest ten thousand.

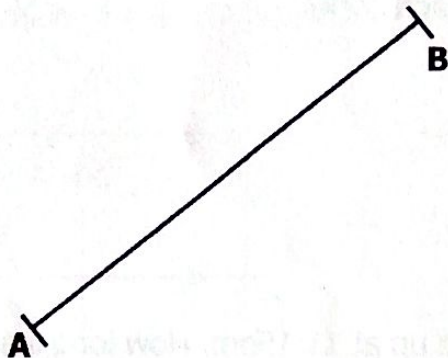
5. Convert 0.94 litres to cm^3 .

6. Workout: $2\ 1\ 2_{\text{five}}$

$+ 4\ 2_{\text{five}}$

7. If today is Tuesday, what day of the week was it 50 days ago?

8. Using a ruler, a pencil and a pair of compasses only, bisect the line segment **AB** below



9. Express 36 as a product of its prime factors.

10. Solve for p: $2p - 5 = 7$

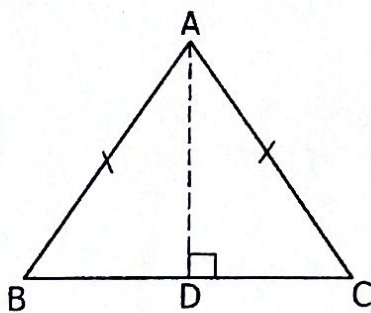
11. 12 men take 20 days to weed a garden. How many days will 16 men take to weed the same garden?

12. Set W has 31 proper subsets. How many elements are in Set W?

13. Ms. Mugisha bought 4 cocks at sh. 140,000. At what price must she sell each in order to get a profit of sh. 12,500 on each cock?

14. Moses slept at 9:55pm and woke up at 11:15pm. How long was he asleep?

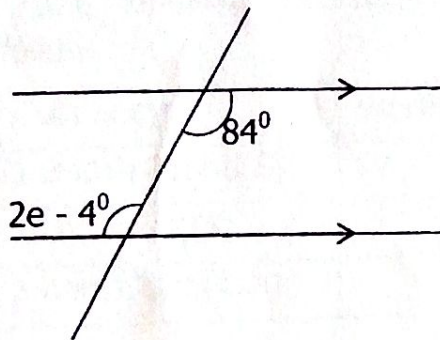
15. The figure below is of a triangle; length $AB = 17\text{cm}$ and $BC = 30\text{cm}$. Find length AD .



16. Solve the inequality: $3m + 5 < 11$

17. The bursar has a bundle of twenty thousand shillings numbered consecutively from PQ8731167 to PQ8731194. How much money does he have?

18. Find the value of e in the figure below.

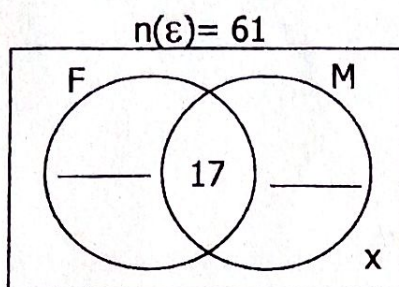


19. The LCM of two numbers is 72 and their GCF is 6, find the second number if the first number is 18.
20. Hamida borrowed sh. 120,000 from a SACCO at a simple interest rate of 10% per annum. Find the time she spent with the money if she paid an interest of sh. 240,000.

SECTION B (60 MARKS)

21. In a class of 61 pupils, $(x + 8)$ eat fish (F) only, $(2x - 4)$ eat meat (M) only, 17 both types of sauce, x eat none of the two.

- (a) Complete the Venn diagram below. **(2 marks)**

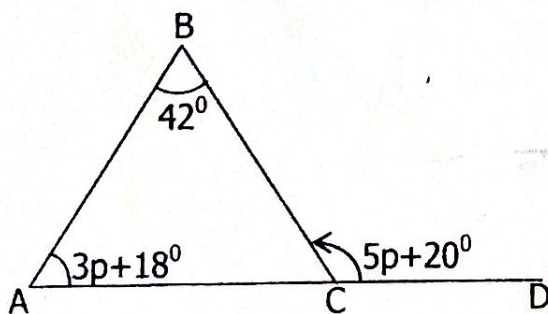


- (b) Find the value of x . **(2 marks)**

- (c) How many pupils did not eat meat? **(2 marks)**

22. Study the triangle below and use it to answer the questions that follow.

- (a) Find the value of P . **(3 marks)**



- (b) What is the size of angle ACB? **(2 marks)**

23. Study the foreign exchange rates below and use them to answer the questions that follow.

Currency	Buying in Ugsh.	Selling in Ugsh.
1 British Pound (£)	4800	4900
1 US Dollar (\$)	3600	3700
1 Kenya Sh. (Ksh)	39	45

- (a) Musubuzi had Ugsh. 1,225,000 which he exchanged into British Pounds (£). How much did he get? **(2 marks)**

- (b) A tourist had Ksh. 111,000 which she used to buy US dollars (\$). How many \$ was she given? **(3 marks)**

24. Mr. Ongom spent his salary as follows; 31% on fees, 29% on transport, 22% on food and saved the rest. If he saved sh. 360,000, how much did he spend on food? **(5 marks)**

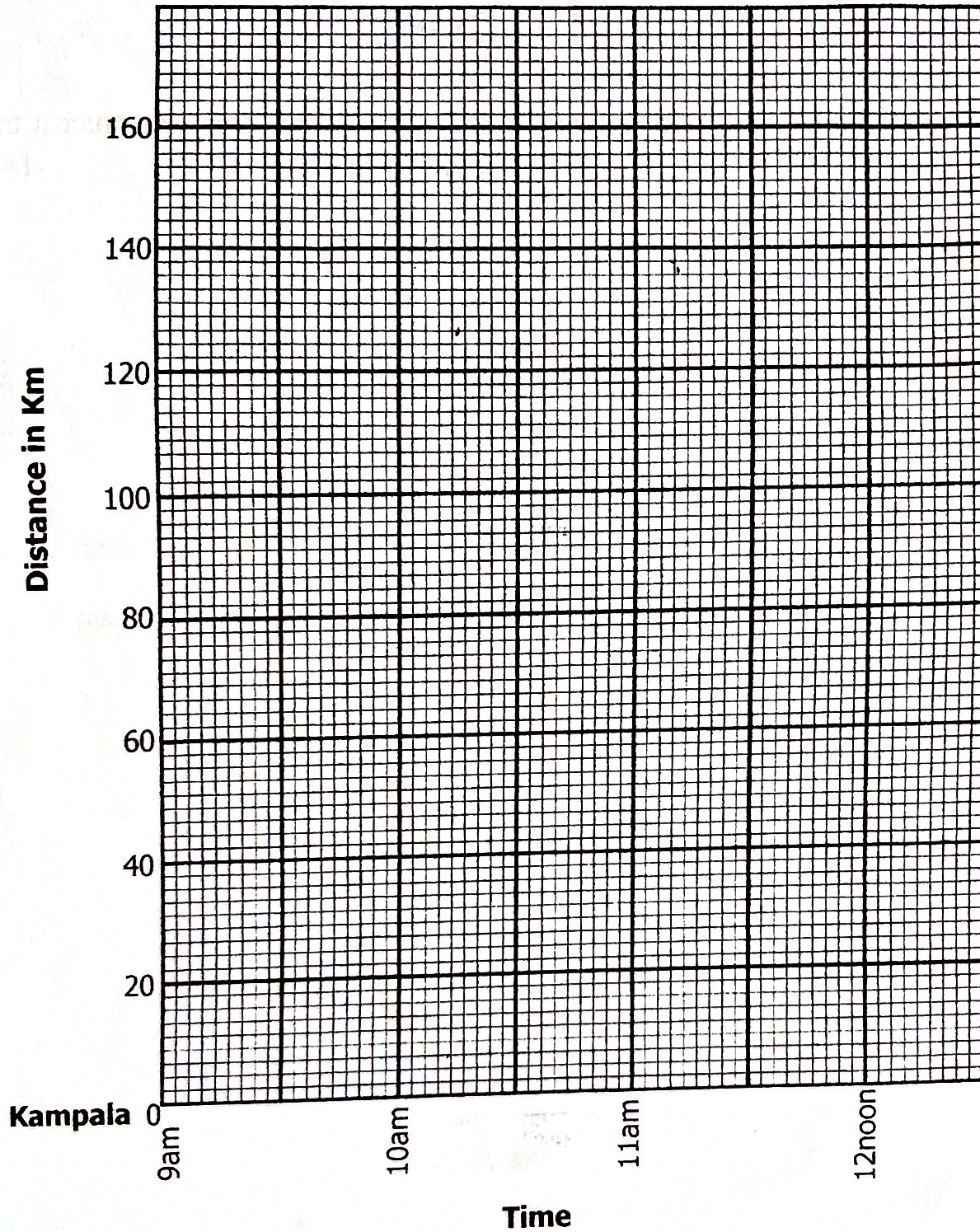
25. (a) Solve: $2^n \div 2^3 = 32$ **(2 marks)**

(b) Write 0.006074 in standard form. **(2 marks)**

26. A wooden box full of ceramic jugs weighs 22.3kg. The empty box weighs 3.4kg. How many jugs are in the box if each jug has a mass of 450g? **(4 marks)**

27. A motorist driving at 60km/hr left Kampala at 9:00am and took one hour to Mityan. He rested for 30 minutes, before continuing to Mubende at a steady speed of 50km, for 2 hours.

(a) Show the motorist's journey on the grid below. (3 marks)



- (b) Calculate the motorist's average speed for the whole journey. **(2 marks)**

28. (a) Using a ruler, a pencil and a pair of compasses only, construct a triangle LMN where $\overline{MN} = 7.5\text{cm}$, angle LMN = 60° and angle LNM = 45° . **(4 marks)**

- (b) Measure \overline{LN} . **(1 mark)**

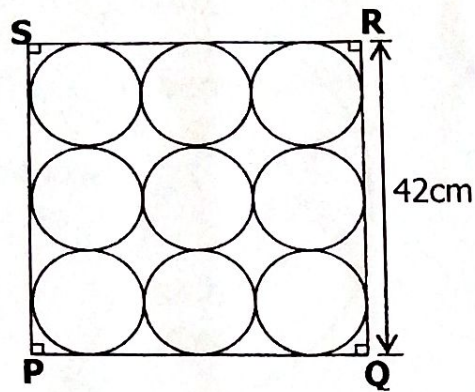
29. In a boutique, a skirt costs twice the cost of a bag and a trouser costs sh. 5000 more than the cost of a bag. The cost of all the items is Sh. 85,000. Find the cost of 2 skirts.

(5 marks)

30. A tank is $\frac{9}{10}$ full of water. When 420 litres are used and it remains $\frac{3}{8}$ full. How many litres does it contain when it is $\frac{13}{16}$ full?

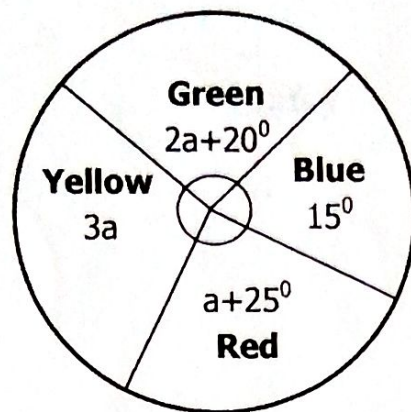
(5 marks)

31. The figure below shows circular plates cut from a square metallic sheet PQRS.



- (a) Find the area of the metallic sheet. **(2 marks)**
- (b) Calculate the area of the metallic sheet that remained after cutting out the plates. **(3 marks)**

32. The circle graph below shows pupils in a class and the colours they belong to.



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

- (b) If there are 60 pupils in green, find the number of pupils in blue.

(3 marks)

END
GOOD LUCK