

NAMAGUNGA PRIMARY BOARDING SCHOOL
TEACHERS' SPECIAL EXAMINATION - SET 2, 2024
MATHEMATICS – PRIMARY SEVEN

Time allowed: 2 Hours 30 Minutes

	Random No.		Personal No.					
Index No.								

CANDIDATE'S NAME:

CANDIDATE'S SIGNATURE:

DISTRICT NO:

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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".

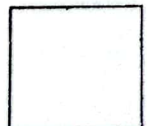
SECTION	EXAMINER'S MARKS	T/L MARKS
A		
B		
TOTAL		

"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)

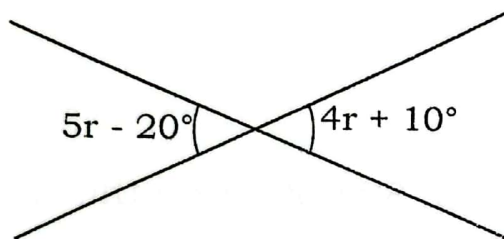
1. Work out : $0.3 + 0.6$
2. Write 97 in Roman numerals.
3. Simplify: $p - 11p + 18p$
4. Find the next number in the series.
 $1, 8, 27, 64, 125, \underline{\hspace{2cm}}$
5. Find the area of a square whose diagonal is 42cm.



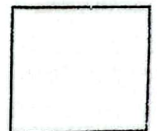
Sh

6. A trader had a bundle of twenty thousand shillings notes numbered consecutively from TX8037832 to **m**. If the bundle had 66 notes, workout the value of **m**.

7. In the diagram below, find the value of **r** in degrees.



8. Write 0.08079 in standard form.
9. Add; $-5 + +9$. Using a number line.



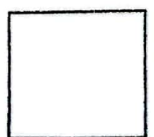
10. Solve: $3m + 7 = 13$

11. Work out: $2202_{\text{four}} - 222_{\text{four}}$

12. A score of picture books costs sh. 30,000. Find the cost of 13 similar books.

13. Express $16\frac{2}{3}\%$ as a simplified fraction.

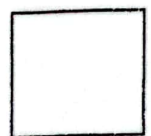
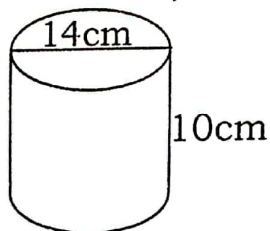
14. Matata drove from town K to town Q at a speed of 72kph. Town K is 90km away from town Q. Calculate the time he took to reach town Q.



15. Namwangu borrowed sh 1,200,000 from a savings SACCO at an interest rate of $3\frac{1}{2}\%$ p.a. Calculate the interest she paid after 18months.

16. Using a ruler, pencil and a pair of compasses only.
Construct an angle of 150° in the space provided below.

17. Calculate the volume of the cylinder below
(Use π as $\frac{22}{7}$)



18. A 200ml bottle was used to sell juice each at sh. 1,200. Find the money earned from the sales of 8.4 litres.

19. Find the sum of all prime numbers between 60 and 72.

20. Set H has 63 proper subsets. How many elements does it have?



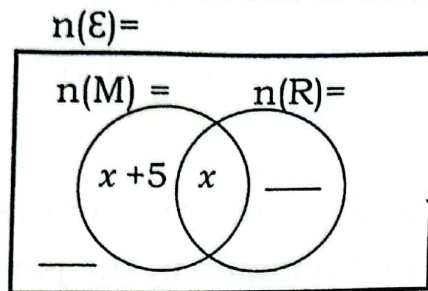
CRANES

SECTION-B (60 marks)

21. In a class, 37 pupils eat rice(R), $(x + 5)$ eat millet (M) only, x pupils eat both rice and millet while 7 pupils eat neither of the meals.

a) Use the information to complete the Venn diagram below.

(2marks)



b) How many pupils are in the class if 29 pupils eat millet?

(3marks)

22. Given the number 87,592

(a) Write the number in words.

(1mark)

(b) Round off the above number to the nearest thousands.

(2marks)

(c) Write the number in expanded form using exponents.

(2marks)



23a) Simplify: $\left(\frac{3}{4} - \frac{2}{3}\right) \times 1\frac{1}{5}$

(2marks)

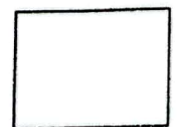
(b) A jerrycan is $\frac{4}{5}$ full of juice. If $\frac{3}{8}$ of the juice in the jerrycan is served, find the fraction that remains in the jerrycan.

(3marks)

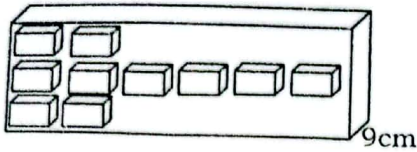
24. Given that $x = 2y + 1$ Complete the table below.

x	1		5		9
y		1		3	

(5marks)

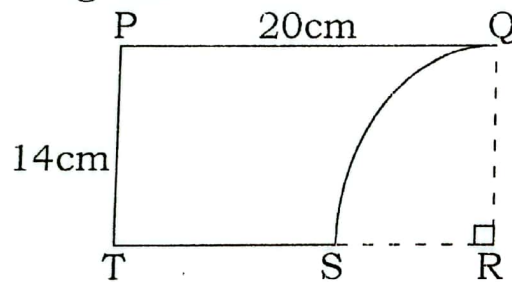


25. The figure below shows a rectangular glass box filled with unit cubes of 27cm^3 each. Use it to answer the questions that follow.



- a) Calculate the length of the glass box. **(3marks)**
- b) How many more similar cubes are needed to fill the glass box? **(2marks)**

26. Use the diagram below to answer the questions that follow.



- a) Find the area of figure PQST (Use π as $\frac{22}{7}$) **(3marks)**
- b) Find the distance round the figure PQST. **(3marks)**



27(a) Monica started her journey at 10:45a.m and ended it at 2:30pm. How long was her journey? **(2marks)**

(b) Express 10m/s as km/hr. **(3marks)**

28(a) Using a ruler, pencil and a pair of compasses only, construct triangle MAY such that $MA = 7\text{cm}$ angle $MAY = 60^\circ$ and $\angle YMA = 75^\circ$. **(4marks)**

(b) Measure the length \overline{AY} . **(1mark)**

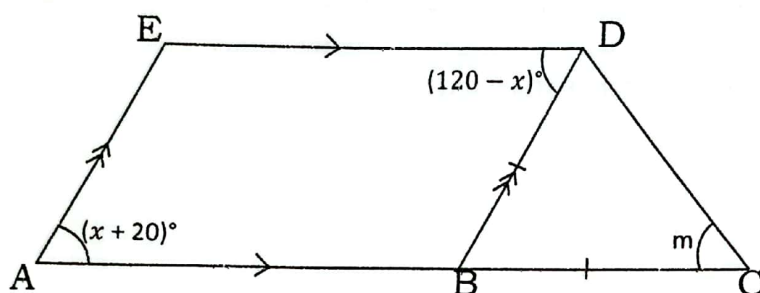
29.(a) Solve $17 - 5k \leq 32$ **(2marks)**



4:00	4:20	5
4:20	5:20	

- (b) Kankya is 18 years younger than his sister. In 12 years time, the sister will be twice as old as Kankya. Find Kankya's age now? **(3marks)**

30. The diagram below consists of a parallelogram with an isosceles triangle.



- (a) Find the value of x

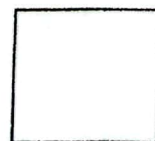
(2marks)

- (b) Find the size of angle m in degrees.

(3marks)

- 31.(a) What integer is 7 steps to the left of $+2$?

(2marks)



(b) Find the absolute value of -8 .

(2marks)

32. Wanani went shopping and bought the following items.

3 packets of wheat flour at sh. 7,800 each.

2000ml of cooking oil at sh. 7500 per litre

$1\frac{1}{2}$ kg of sugar at sh. 5000 per kg.

A packet of baking powder at sh. 1,500.

a) Find Wanani's expenditure.

(4marks)

b) Work out his change if he went shopping with a fifty thousand shilling note.

(1mark)

End

