

EDUCATION GIANTS EXAMINATION BOARD 2023

PRE MOCK PRIMARY SEVEN MATHEMATICS

Time: 2 hours 30 minutes

CANDIDATE'S NAME.....

INDEX NUMBER

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CANDIDATE'S SIGNATURE

Read the following instructions carefully.

1. This paper has two sections A and B. Section A has 20 questions (40 marks) and B has 12 questions (60 marks).
2. All answer must be written in the space provided, any work done using a pencil other than diagrams will not be marked.
3. Unnecessary alterations of work will lead to loss of marks.
4. Use blue or black ink ball pen only for answering questions
5. No calculator, multiplication table, network gadgets and any mean of knowledge help or altering questions is allowed in the examination room.
6. Critical thinking and good presentation of work is a must.
7. Do not write anything in the table indicated
“For examiner’s use only “

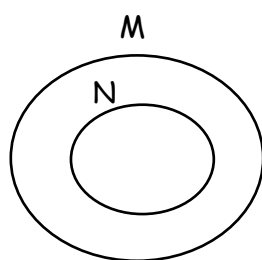
For the examiner’s use only

S/T MARKS	
H/D MARKS	
FINAL MARKS	

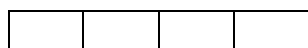
SECTION A (40 MARKS)

1. Subtract : $19 - 17$

2. In the Venn diagram below, shade $(M - N)$



3. In the space diagram below Shade $\frac{2}{3}$ of sh. 1200



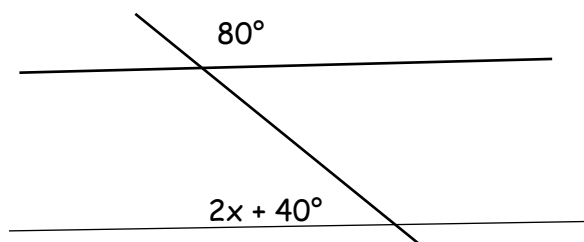
4. Ariana ate $\frac{2}{3}$ of the food and served $\frac{1}{4}$. Find the fraction of food remained.

5. Write 49 in Roman system

6. Given the digits: 3, 0, and 4. Form the smallest 3 digits numeral

7. Find the exact number between 4 and 7

8. In the space below, construct an angle which is a supplement of 60°
9. A man has two farms, A and B with 120 sheep and 40 sheep. Find the exact number of sheep he should add in both farms equally.
10. Express 123_{five} in a denary system.
11. Circle all prime numbers in the set below.
 $\{5, 17, 15, 27, 37\}$
12. Find the value of x in the diagram below.



13. Find the difference of the missing numbers in the series:
1, 8, 27, 64,,
14. Lumonde bought a dozen of books at sh.36000, He sold each book at Sh. 5000.
Find his profit
15. What is the highest common factor of 9 and 6?
16. The probability of picking a blue pen is $\frac{2}{3}$. If the total number of red and blue pen is 12, Find the number of red pens in the bag.
17. Mr Musoke deposited Sh. 2000 notes numbered from **DH2119176** to **DH2119275** in a bank. How much was his principal?
18. The area of a square flower garden is 400 m^2 , Nakabuye tied a rope around the garden thrice. Find the length of the rope she used.

19. Solve: $2m - 6 = 30 - 4$

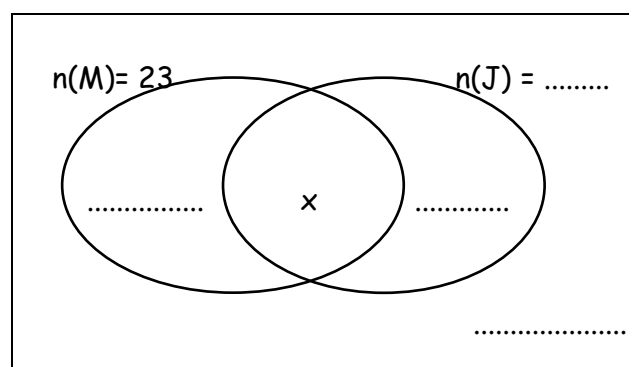
20. Use distributive property to work out: $(2.5 \div \frac{1}{2}) + (2.5 \div \frac{2}{3})$.

SECTION B (60 marks)

21. In a birthday party, 23 pupils took both mineral water (M) and soda, the number of pupils who took soda and Juice was 7 more than those who took mineral water and soda. The number of pupils who took soda only was twice those who took all drinks.

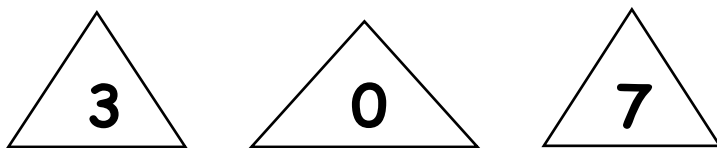
a) Represent the above information in the Venn diagram below. (2 marks)

$$n(E) = 60$$



b) Find the number of pupils who took soda only. (3 marks)

22. Teacher Ochieng made the manila cards below.



a) Form the possible three digit smallest numeral using the digits above. (2 marks)

b) Find the difference of the largest even numeral and the smallest numeral formed. (3 marks)

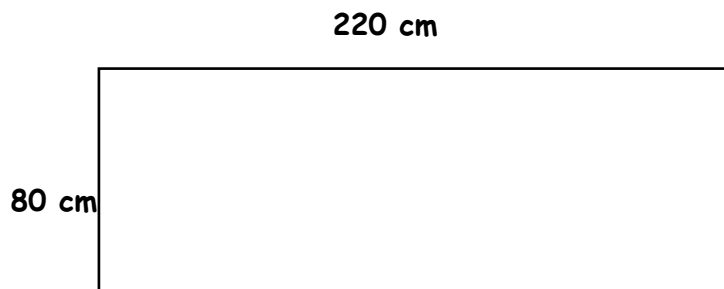
23. In the class of 75 pupils, $\frac{2}{5}$ of them went for swimming, $\frac{1}{3}$ of the remainder went for dancing and the rest went for football.

a) Find the fraction of pupils who went for football. (2 marks)

b) Express the more number of pupils who went for swimming than football as percentage of the of total number of pupils in the class. (3 marks)

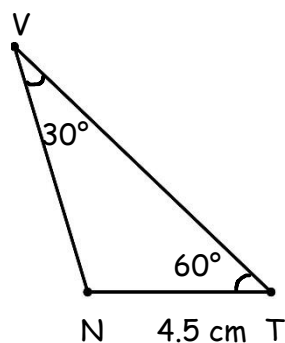
24. a) Express 7.006 hectares as m^2 (2 marks)

b) The figure below shows a rectangular sheet of metal. The sheet was curved to form a tank of height 80 cm.



Calculate the area of the sheet needed to cover the base of the tank formed . (3 Marks)

25. Using a pair of compasses, ruler and a sharp pencil only. Construct a triangle NTV below and drop a Perpendicular line passing elongated line NQ at R from V (4 marks)



Measure VQ.....






























(1 mark)

26. The cost of a set is twice the cost of two exercise books. The cost of 3 pens yesterday was Sh. 300 more than the cost of an exercise book, in the morning the cost, the cost of a pen has increased by sh. 100. If the price of three exercise books is sh. 1500, How much more is an exercise book than a pen now? (5 marks)

27. a) **Simplify:** $-4 - -2$ using a number line. (3 marks)

b) Find the range of integers if the their Median is -2^3 (2 marks)

28. Mr Olama takes 100 pineapples in the market every. The pictograph below shows the number of pineapples which he didn't sell in a week.

Day of the week	Number of pineapples
Monday	    
Tuesday	  
Wednesday	       
Thursday	   
Friday	  
Sunday	     

 Represents 9 pineapples

- Which days did he sell the more number of pineapples? (1 marks)
- How many pineapples did he sell on Sunday than Monday? (2 marks)
- Find the total number of pineapples he didn't sell Tuesday, Wednesday and Friday. (2 marks)
- Work out the arithmetic mean number of pineapples he didn't sell in a week. (2 marks)

29. a) Two supplementary angles are in the ratio of 2:3, Find the angles. (2 marks)

b) Find the difference of the above angles. (2 marks)

30. a) Work out: $2 - 3 = \dots\dots\dots$ (finite 5). (2 marks)

b) Today is Wednesday, what day of the week was it 49 days back? (2 marks)

31. a) A man started riding his bicycle at 0700Hrs to school with a steady speed of 60km/hr for $2\frac{1}{2}$ hours. He rested at a certain hotel for 30 minutes and left with a steady speed of 72km/hr and reached school after 3 hours later.

a) How long did he take to reach school? (2 marks)

b) Calculate his average speed while travelling. (3 marks)

32. In the table below, sum of values diagonally, vertically and horizontally are equal. Study it carefully and complete it correctly.

.....	21	10
.....	13	12
14	17	16	11
19	22

(5 marks)

END

"YOU ARE THE GIANTS, SUFFER TODAY AND CELEBRATE TOMORROW"