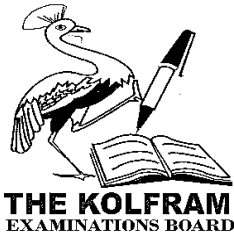


KOLFRAM EDUCATIONAL SERVICES KAMPALA



SET II- PRE MOCK EXAMINATION 2023

PRIMARY SEVEN MATHEMATICS

Time allowed: **2 hours 30 minutes**

Index Number:

Random Number						Personal Number		

Candidate's Name: _____

Candidate's Signature: _____

School Random Number: _____

District ID Number: _____

DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO

Read and follow these instructions carefully:

1. Do not write your school or district name anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section A has **20** questions and section B has **12** questions. The paper has **7** printed pages.
3. Answer all questions. **All** answers to both sections **A** and **B** must be shown in the spaces provided.
4. All answers must be written using a **blue** or **black** ball point pen or ink. Any answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

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Turn over

SECTION A: (40 MARKS)

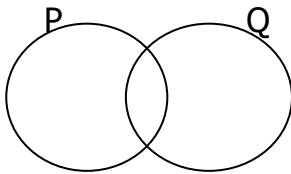
1. Multiply:

$$\begin{array}{r} 3 \quad 5 \\ \times \quad 2 \\ \hline \end{array}$$



2. Solve the equation below.

$$3p + 4 = 19$$

3. Shade the region (P - Q) in the diagram below.



4. Find the square of $6\frac{1}{4}$

5. If  represents 10 oranges, how many oranges are represented by .

6. Round off 6.09 to the nearest tenths.

7. Using a ruler, a pencil and a protractor, draw an angle of 45° .

8. Find the sum of the missing numbers in the sequence.

2, 3, 5, 7, 11, _____, _____

9. Express 2.5kg to grams.

10. An examination started at 7:30 a.m. and ended at 9:15 a.m. How long did the exam take?

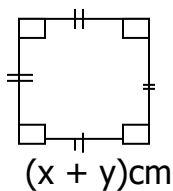
11. Work out: $-10 - +7$

12. If set $P = \{a, b, c\}$. How many subsets has set P?

13. Use distributive property to work out.
 $(4 \times 2.5) + (6 \times 2.5)$

14. Find the range of the following numbers: 5, 1, 4, 6, 9, 3, 8, 2

15. Find the perimeter of the figure below.

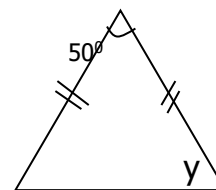


16. Write CXC in Hindu – Arabic numerals.

17. Musisi has a bundle of two thousand shilling notes numbered consecutively from XY562201 to XY562300. How much money does he have?

18. How many $\frac{1}{4}$ litre bottles can be obtained from 4 litres of milk?

19. The figure below is an isosceles triangle. Find the size of angle y .



20. Find the smallest number when divided by 8 or 12 leaves remainder 3.

SECTION B: (60 MARKS)

21a) Work out: $\frac{0.24 + 0.66}{0.3 \times 0.3}$
(3 marks)

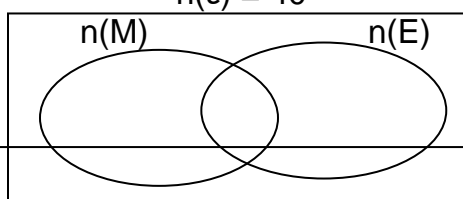
(b) Simplify: $\frac{1}{4} - \frac{1}{4} + \frac{3}{4}$
(3 marks)

22. In a class of 40 pupils, 22 enjoy Maths (M), 24 enjoy English (E), y pupils like both while eight enjoy other subjects.

(a) Represent the above information on the Venn diagram below.

$n(\epsilon) = 40$

(3 marks)



— y —

—

- (b) How many pupils enjoy both? (2 marks)

23. A costa carries 35 passengers when full to its capacity.

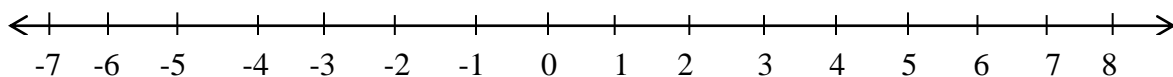
- (a) How many passengers will it transport in 16 trips? (2 marks)
- (b) If the bus fare is shs. 7500 per person, how much money will the conductor collect per trip? (2 marks)

- 24a) Sofia is 5 years younger than Amina. Their total age is 19 years. Find Amina's age. (2 marks)

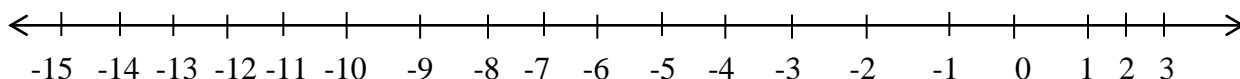
- (b) Solve: $1\frac{1}{2}x - 7 = 8$ (3 marks)

25. Use the number lines below to work out: (2 marks each)

- (a) $-6 + +8 = \underline{\hspace{2cm}}$

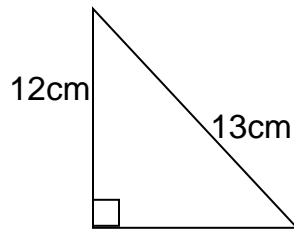


- (b) $+4 \times -3 = \underline{\hspace{2cm}}$



26. Using a ruler, a pencil and a pair of compasses only, construct a regular quadrilateral in a circle of radius 4cm. (5 marks)

27. **Study the diagram below and answer the questions that follow.**



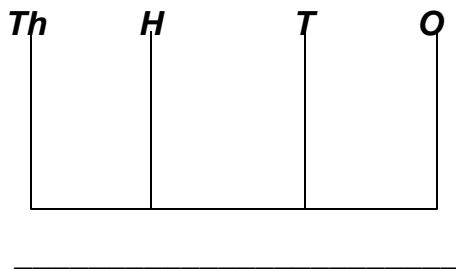
- (a) Find its area. (3 marks)

- (b) Find its perimeter. (2 marks)

- 28a) Find the sum of the place value of 3 and the value of 5 in the number 2503. (2 marks)

- (b) Expand 78.25 using powers. (1 mark)

- (c) Show the number 4201 on the abacus below. (2 marks)



29. Paul went to the market and bought the following items:-

1 $\frac{1}{2}$ kg of rice at sh. 3600 per kg.

3 bars of soap at sh. 4200.

500 grams of salt at sh. 1000 per kg.

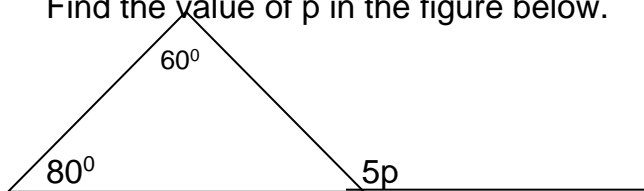
2kg of sugar at sh. 3200 per kg.

- (a) How much money did he spend altogether? (4 marks)

- (b) If he went with sh. 20000, what was his balance after paying for all the items?
(1 mark)

- 30a) If y° and 80° are co-interior angles on a parallel line, what is the value of y ?
(2 marks)

- (b) Find the value of p in the figure below. (2 marks)



- 31a) A school had 500 books in the library last year. This year, the number has increased by 20%. How many books are in the library this year?
(3 marks)

- (b) Babra and Hope shared sh. 40000 in a ratio of 3:7 respectively. How much did each get?
(3 marks)

32. A farmer divided his land as follows:- $\frac{6}{20}$ of the land for food crops, $\frac{1}{2}$ for cash crops and $\frac{1}{5}$ for pasture. Use the above information to draw an accurate pie chart.

(6 marks)

