KOLFRAM EDUCATIONAL SERVICES KAMPALA



PRE NATIONAL MOCK EXAMINATION 2024

SET THREE (BLUE PRINT)

MATHEMATICS

Time allowed: 2 hours 30 minutes

| Index | Random Number | | | | | | Personal Number | | |
|---|---------------|--|--|--|--|--|-----------------|--|--|
| Number: | | | | | | | | | |
| Candidate's Name: Candidate's Signature: | | | | | | | | | |
| School Name: | | | | | | | | | |
| District Name: | | | | | | | | | |
| | | | | | | | | | |

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

Read and follow these instructions carefully:

- This paper has two sections: A and B.
 Section A has 40 questions and section B has 12 questions. The paper has 10 printed pages.
- 2. Answer **all** questions. **All** answers to both sections A and B must be shown in the spaces provided.
- 3. 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.
- 4. No calculators or **electronic** pens are allowed in the examination room.
- 5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.
- 6. Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

| FOR EXAMINER'S USE ONL | Y |
|------------------------|---|
|------------------------|---|

| QN. NO. | MARKS | EX'ER'S INITIAL |
|---------|-------|--------------------|
| 1 -5 | | |
| 6 - 10 | | |
| 11 - 15 | | |
| 16 - 20 | | |
| 21 - 23 | | |
| 24- 26 | | |
| 27- 29 | | |
| 30- 32 | | |
| TOTAL | | |

Turn Over

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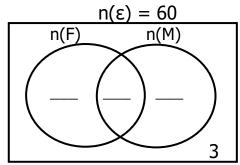
| | SECTION A: | (40 | MARKS) |
|---|---|-----|---|
| 1 | work out: 63 +27 | 2 | Change 10010 _{two} to be base ten |
| 3 | Arrange the following numbers beginning with the largest and ending with the smallest; 0.7070, 0.0707, 7.700, 7.070 | | A farmer has a roll of string 900 metres long. He cuts it into equal pieces, each 50 metres long. How many pieces does he get altogether? |
| 5 | Express Shs. 300 as a percentage of Shs. 1200. | 6 | Change 18km/hr to m/sec. |
| 7 | The average weight of 5 boys is 48kg. When a sixth boy joins them average weight becomes 45kg. What is the weight of the sixth boy? | 8 | Mr. Kawuuta banked 20000 sh. notes numbered from AP004300 to AP004399 consecutively. How much money did he bank? |

Use the figure below to write the Mathematics statement shown. -5 -3 -2 3 5 -1 The range of two numbers is 12. The cost of 6 books is shs. 4,500/= 11 10 If the smaller number is 20, How many books did Juma buy if he find the bigger number. went shopping with shs. 12,000 and the shopkeeper is demanding him shs. 1,500 more? 13 Work out: Weeks Days A baby slept at 8:30 a.m. for $2\frac{1}{2}hrs$. At what time did the baby wake up? {The first 15 Factorize completely: $12 \times y - 6$ whole 14 R 8 set numbers} List down the members of set R.

| 16 | A school cook prepares 30kg of phosolong will the same phoso take to fed 1 | | - |
|----|---|----|--|
| 17 | How many bottles of water each 0.5 litres can be filled from water tank of 50 litres? | 18 | Describe the shaded region. |
| 19 | In the diagram below, O is the centre. Find the size of angle y . | 20 | Find the perimeter of the figure below. All angles are right angles. 100m 30m 40m |

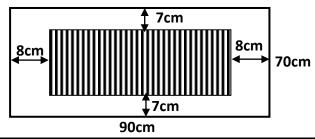
SECTION B

- At a birthday party attended by 60 guests, 40 took Fanta (F), x took Mirinda (M), 30 took the two types of Soda and 3 guests did not drink anything.
 - (a) Represent the above information in the Venn diagram below. (3 marks)



- (b How many pupils took Mirinda?) (2 marks)
- (c) How many guests took only one type of soda? (1 mark)

A piece of cloth is laid on a table 90cm long and 70cm wide as shown in the figure below. The area covered by the piece of cloth is shaded.



- a) Find the length and width of the piece of cloth.
- b) Find the area of the table that is not covered by the piece of cloth.

Turn Over

23 Mr. Kalinda went to the bank and filled in the form below.

| Bank of Baroda (Deposit form) | | | | | | |
|-------------------------------|-----------------|-------------|--|--|--|--|
| Denominations | Number of notes | Amount | | | | |
| Shs. 50000 | 5 | Sh. 250,000 | | | | |
| Shs. 20000 | 2 | Sh. 40,000 | | | | |
| Shs. 10000 | (i) | Sh. 30,000 | | | | |
| Sh. 5000 | (ii) | (iii) Sh | | | | |
| Sh. 2000 | (iv) | Sh. 20,000 | | | | |
| Sh. 1000 | 10 | Sh. 10,000 | | | | |
| Total a | Sh. 400,000 | | | | | |

(a) Complete the table.

(1 mark each)

24 (a) Using a ruler, a pencil and a pair of compasses only, construct a rhombus ABCD with \overline{DC} = 6cm and angle ADC = 60⁰. (4 marks)

(b) Measure diagonal AC.

(1 mark)

| | | Marka | | | (a) Using clear working, complete the frequency table below. (1 mark each) | | | | | |
|----|---|-----------|----|------|--|---|---------------|------|--|--|
| | | Marks | 40 | | | 60 | 20 | | | |
| | | Frequency | 2 | 1 | | | 1 | | | |
| | | Total | | 50 | | 300 | | | | |
| | Work out the range. (1 mark) | | | Cald | culate the me | ean. <i>(</i> 2 | marks) | | | |
| 26 | (a) Solve:4y - 6 = 12 - 2y (2 marks) | | | b) | his s age | Bursar is fou son. 4 years was 42 year now? (2 marks) | ago, their to | otal | | |
| 27 | Sarah and Mariam shared 72 mangoes in the ratio of 7:5 respectively. How many does each get? (3 marks) Turn Over | | | | | | | | | |

| - | | |
|----|--|------------------------------------|
| | (b) By increasing 2000 by x% it becomes | |
| | marks) | (2 |
| | | |
| | | |
| | | |
| | | |
| 28 | PQR is an isosceles triangle whose perim | neter is 64cm, QS = SR = 12cm. |
| | Calculate its area. | (6 |
| | marks) | |
| | | |
| | | |
| | / X | |
| | | |
| | | |
| | Q 12cm S 12cm R | |
| | | |
| 20 | The diagram helevy shows a hig hay 20or | m long 16cm wide and 0cm high and |
| 29 | The diagram below shows a big box 30cr a small box 3 cm long, 3cm wide an | |
| | | |
| | 9cm | 3cm |
| | | /3cm |
| | 16cm | 3cm |
| | 30cm | |
| | Box A | Box B |
| | If such small boxes are to be packed into Find the total number of small boxes | How many small boxes will fill the |
| | that will be packed in the first layer of | big box? (2 marks) |
| | the big box. (2 marks) | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| | How many layers will fill the big box? | • | (1 mark) | | |
|----|---|--------|--|--|--|
| 30 | In a primary six class, 1/3 of the pupils were absent on Friday and 80% of the pupils were present on Saturday. If 10 more pupils were absent on Friday than Saturday, how many pupils were in the class altogether? (4 Marks) | | | | |
| 31 | The mean of the scores 7, 10, 5, 4 ar | nd X i | s 8. | | |
| a) | Find the value of X . (2 marks) | b) | Work out the medium score. (2 marks) | | |
| c) | Find the probability that a score picke | ed a r | andom is below the mean. (1 mark) Turn Over | | |

