

THE SIPRO BEGINNING OF TERM I EXAMINATIONS 2024

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

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|------------------------------|--|--|--|--|--|--------------|--|--|
| Random No. | | | | | | Personal No. | | |
| Index No. | | | | | | | | |
| Candidate's Name _____ | | | | | | | | |
| Candidate's Signature: _____ | | | | | | | | |
| School Random No _____ | | | | | | | | |
| District ID: _____ | | | | | | | | |

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration/crossing* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

| PAGES | MARKS | INITIALS |
|--------|-------|----------|
| Page 1 | | |
| Page 2 | | |
| Page 3 | | |
| Page 4 | | |
| Page 5 | | |
| Page 6 | | |
| Page 7 | | |
| Page 8 | | |
| Page 9 | | |

Please turn over



THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA


PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS

SEMAS

Simplified Learning Today

SECTION A: 40 MARKS

Questions 1 to 20 carry **two** marks each

| | | | |
|---|---|---|--|
| 1 | Work out: $\begin{array}{r} 53 \\ + 16 \\ \hline \end{array}$ | 2 | Given that set $K = \{q, v, z\}$. How many subsets has set K? |
| 3 | Write 9,019 in words. | 4 | What morning time is shown on the clock face?  |
| 5 | Kiiza bought a string of length 9,740cm. Express its length in metres. | 6 | Complete the next number in the sequence below. 8, 9, 12, 18, 28, _____ |
| 7 | Using a ruler, a pencil and a protractor only, draw an angle of 130° | 8 | Mawale bought a shirt at sh 30,000 and later sold it making a loss of sh. 2000. Find his selling price |

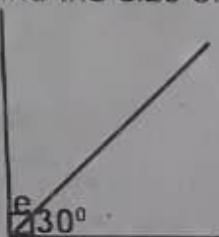


| | | |
|----|--|---|
| 9 | <p>Use $>$, $<$ or $=$ to complete correctly.</p> <p>$-3 + 6$ $5 + -3$</p> | <p>10 On the venn diagram below, shade the region that represents $(V \cup Z)^c$</p> <div data-bbox="965 336 1316 593" data-label="Diagram"> </div> |
| 11 | <p>Work out: $\frac{2}{3} + \frac{1}{2}$</p> | <p>12 The following guests attended the birthday party of Olivia on Sunday:</p> <p> </p> <p>How many guests attended the party?</p> |
| 13 | <p>Solve for W:</p> <p>$W - 15 = 20$</p> | <p>14 Arrange -4°C, -2°C, -5°C, -6°C and 0°C in descending order.</p> |




- | | | | |
|----|--|----|--|
| 15 | My mother's age is thrice the age of her daughter. If their total age is 60 years , how old is the daughter? | 16 | A cyclist travelled from Jinja to Iganga at an average speed of 80km/h in 90 minutes. Calculate the distance the cyclist covered. |
|----|--|----|--|

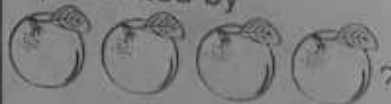
- 17 Find the size of angle marked e.



- 18 Twelve eggs cost sh. **6000**. What will be the cost of **three** similar eggs?

- 19 How many **400ml** bottles can fill a **12 litre** bucket?

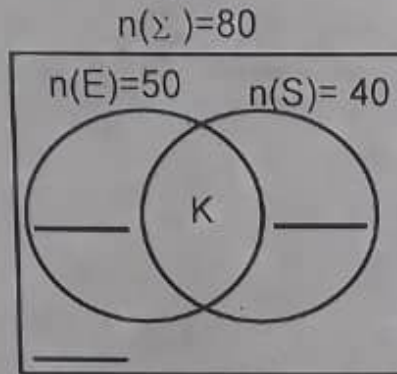
- 20 Given that  represents 8 oranges. How many oranges are represented by



SECTION B: 60 MARKS

Marks for **each** part of the question are indicated in the brackets.

- 21 In a class of **80** pupils, **50** pupils like English (E), **40** pupils like science (S) **5** pupils like none of the subjects and **K** pupils like both subjects.
- a) Complete the venn diagram below using the above information. (03 marks)

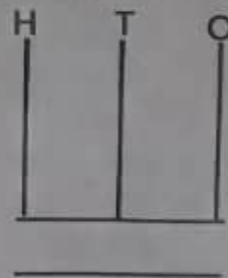


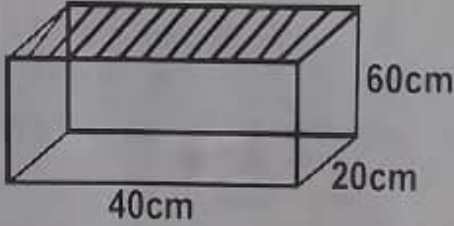
- b) If a pupil is picked at a random, what is the **probability** of choosing one who likes both subjects? (02 marks)

- 22 Given the digits 4, 0 and 6.
- a) Form all the 3-digit numerals from the given digits without **repeating**. (02 marks)

- b) Find the **sum** of the largest and smallest 3-digit numbers. (02 marks)

- c) Show the **smallest** 3-digit number formed on the abacus. (01 mark)



| 23a) | Work out: <table style="display: inline-table; vertical-align: middle;"> <thead> <tr> <th>years</th> <th>months</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>4</td> </tr> <tr> <td>- 2</td> <td>9</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td colspan="2"><hr/></td> </tr> </tbody> </table> | | years | months | 5 | 4 | - 2 | 9 | <hr/> | | <hr/> | | (02 marks) |
|-------|--|----|--|--------|---|---|-----|---|-------|--|-------|--|------------|
| years | months | | | | | | | | | | | | |
| 5 | 4 | | | | | | | | | | | | |
| - 2 | 9 | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | |
| b) | Express 180 km/h to m/sec. | | (02 marks) | | | | | | | | | | |
| 24. | <p>The figure below is of a rectangular tank containing water. Use it to answer the questions that follow.</p> <div style="text-align: center;">  </div> | | | | | | | | | | | | |
| a) | Find the area of the shaded part. (02 marks) | c) | How many litres of water does the tank hold when completely full? (03 marks) | | | | | | | | | | |



25a) Using a ruler, a pencil and a pair of compasses only, construct a **rectangle MNTR** where line $MN = 7\text{cm}$ and line $NT = 3\text{cm}$. (04 marks)

b) Draw a diagonal **MT** and measure angle **TMN**. (02 marks)

26. **Sserunjogi went to the shop and bought the following items:**

12 apples at sh. 2200 every 2 apples.

$2\frac{1}{2}$ litres of cooking oil at sh. 6000 per litre

3kg of rice at sh. 5500 per kg.

5 oranges at sh. 3000.

a) How much did he **spend altogether**? (04 marks)

b) If he had a note of fifty thousand shillings. What was his **change**? (02 marks)

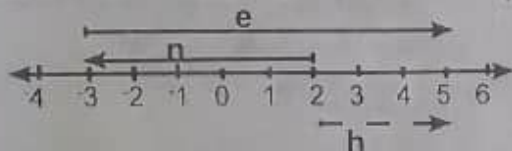
| | |
|--|---|
| 27a) Work out: $\frac{0.12 \times 0.36}{0.04 \times 0.3}$ (03 marks) | b) Simplify: $\frac{3}{4} - \frac{1}{2} + \frac{1}{3}$ (02 marks) |
|--|---|

| |
|--|
| 28a) Given that $a = 6$ and $p = 4$. Find the value of $2a + 3p$. (02 marks) |
|--|

| |
|---|
| b) Sarah thought of a number. She subtracted 8 from it. Find the number if the difference was 3. (02 marks) |
|---|



29. Use the number line below to answer the questions that follow.



a) Write the **integers** represented by the arrows: (03 marks)

n = _____

e = _____

h = _____

b) Form the **mathematical** additional statement for the above arrows shown on the number line. (02 marks)

30. The table below shows the number of books which were distributed to three children by their father as follows:

| Name of children | Doreen | John | Paul |
|------------------|--------|------|------|
| Number of books | 12 | 9 | 15 |

Show the above information on a **circle graph** of radius of 3.5cm. (05 marks)



31. The sum of three consecutive counting numbers is 78. Find the numbers (04 marks)

32a) Work out:
$$\begin{array}{r} 437 \\ \times 52 \\ \hline \end{array}$$
 (02 marks)

b) Subtract 4537 from 8000 (02 marks)

c) Divide:
$$9 \overline{)19809}$$
 (02 marks)

