

THE SIPRO END OF TERM I EXAMINATIONS -2023

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Index No.

| | Random No. | | | | | | Personal 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 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 | | |
| Total | | |

Please turn over



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SECTION: 40 MARKS

Attempt all questions in this section
Questions 1 to 20 carry two marks each

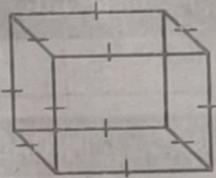
1. Work out:
$$\begin{array}{r} 1 \ 3 \\ \times \ 2 \\ \hline \end{array}$$

2. Write 'five thousand, four hundred nine' in figures.

3. If set K= {First four prime numbers}. Find the number of subsets in set K.

4. Use a ruler, pencil and a pair of compasses only to construct angle 45° .

5. Name the drawn prism below.



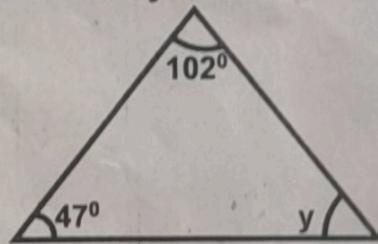
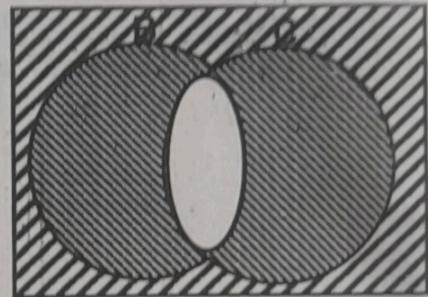
A bus left town A for town C covering a distance of 225km in 3 hours. Work out the speed of the bus.

7. Simplify: $^{+3} - ^7$

8. Kalinaki scored the following marks: 87, 78, 92 and 51. Work out his average mark.



| | | | |
|-----|--|-----|---|
| 9. | Simplify: $3b + 2 + 4b - 7$ | 10. | Find the circumference of a circle whose diameter is 14cm. [use $\pi = \frac{22}{7}$] |
| 11. | What is the next number in the sequence? 8, 10, 13, 18, 25, _____ | 12. | Describe the shaded region in the venn diagram. |
| 13. | Change $\frac{3}{4}$ to a decimal number. | 14. | PQR is a triangle, find the size of angle marked y. |
| 15. | Prime factorise 36. Use set notation to write your answer. | | |



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P7 MATHEMATICS END OF TERM I EXAMINATIONS - 2023

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.

| | | | |
|-----|--|-----|--|
| 16. | Express 214_{five} to base ten. | 17. | In a class, the ratio of boys to girls is 3:5 respectively. Find the number of girls in class if there are 64 pupils in the class. |
| 18. | Work out $(64 \times 27) + (27 \times 36)$ using distributive property. | | |
| 19. | Given that 1 dollar is equivalent to Uganda sh.3600. How many dollars will a tourist have if he has Ug.sh.1,080,000? | | |
| 20. | The product of $\frac{2}{3}$ and K is 12. Find the value of K. | | |



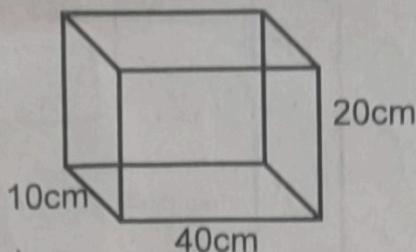
SECTION B: 60 MARKS

Attempt all questions in this section.

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

| | | | |
|-------|---|----|--|
| 21.a) | Write 275 in scientific notation. | b) | Work out: $\begin{array}{r} 101_{\text{two}} \\ - 11_{\text{two}} \\ \hline \end{array}$ |
| | | | (02Marks) |
| 22. | The sum of three consecutive odd numbers is 45. | | |
| a) | Find the numbers. | | |
| b) | Calculate the product of the first and third numbers. | | |
| | (04Marks) | | |
| | (02Marks) | | |

23. Below is a **rectangular** prism; Use it to answer the questions that follow:



- a) Find the **volume** of the prism.

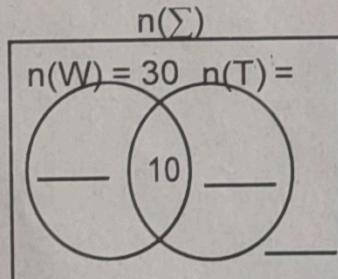
(02Marks)

- b) Calculate the **capacity** of the tank when completely **full**.

(03Marks)

24. At a party, 30 guests took water (W), (K + 8) took tea (T) only, 10 guests took both water and tea while K took neither of the two drinks.

- a) Use the above information to complete the venn diagram.



(03Marks)

- b) If 30 guests took tea, find the **total** guests who were at the party.

(03Marks)



| | |
|-------|--|
| 25.a) | <p>Draw and find the number of folding lines of symmetry of a square.</p> <p style="text-align: right;">(02Marks)</p> <p>b) Work out the complement of 47°.</p> <p style="text-align: right;">(02Marks)</p> |
| 25 | <p>The pie chart below shows how Doreen spends her monthly salary of sh.720,000. Study and use it to answer the questions that follow.</p>  <p>a) Find the value of P in degrees.</p> <p style="text-align: right;">(02Marks)</p> <p>b) How much does he spend on fees?</p> <p style="text-align: right;">(02Marks)</p> <p>c) Express her expense on rent as a percentage.</p> <p style="text-align: right;">(02Marks)</p> <p style="text-align: right;">(01Mark)</p> |



27

Jowelia bought the following items as shown on the table below.
Complete the blank spaces.

a)

| Items | Quantity | Unit cost | Total cost |
|--------------------------|----------|----------------|------------|
| sugar | 2kg | sh.4500 per kg | sh. |
| Bread | loaves | sh.5500 per kg | sh.16,500 |
| Blueband | 4tins | sh | sh.20,000 |
| Total Expenditure | | | sh. |

b)

(04Marks)

Find her change if she had fifty thousand shillings.

28. a)

Use a ruler, pencil and a pair of compasses only to construct a triangle ABC in which angle ABC is 90° , AB is 8cm and BC is 6cm.

b)

(04Marks)

Measure angle BAC.

(01Mark)



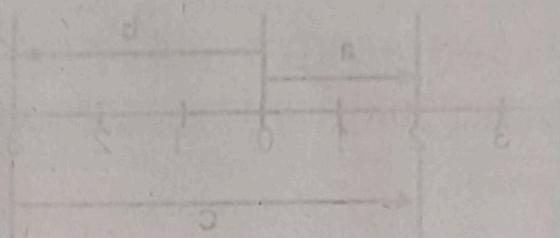
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P.7 MATHEMATICS END OF TERM I EXAMINATIONS - 2023

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TEACHER'S GUIDES AND PUPIL'S COMPANIONS.

29 Miiro is 13 years older than Okumati and if their total age is 39 years.

- a) Find the present age of Okumati.



(03Marks)

- b) How old will Miiro be in 7 years?

(02marks)

30 a) Work out: 0.48×0.25
 0.12×0.5

b) Convert: 0.2121..... to a common fraction.

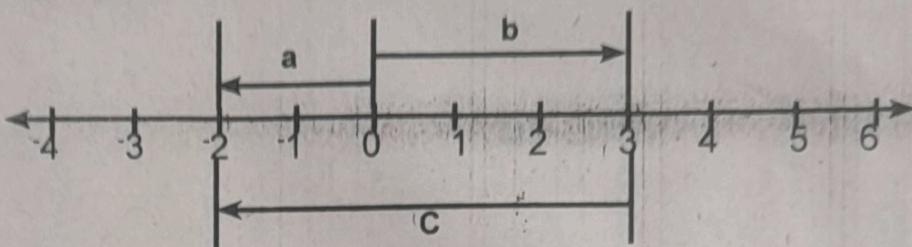
(02marks)

(02marks)



31.

Study the arrows shown on the number line below and answer the questions that follow.



a) Give the value of:

$$a = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}} \quad (03\text{marks})$$

b) Write down the mathematical statement for the arrows shown on the number line above.

(02marks)

32.

A taxi left town A at 7:00am for town B at a speed of 60km/h for 2 hours.

It stayed at town B for an hour then returned to town A in only 3 hours.

a) Calculate the **distance** between the two towns.

b) Find the **average speed** for the **whole** journey.

(02marks)

(03marks)

