



UNIQUE STAR EXAMINATIONS BOARD

**PRE PRIMARY LEAVING MOCK SET FOUR**

**2024**

**MATHEMATICS**

**Time allowed : 2 hours 30 minutes**



**Index No.**

Random No.						Personal No.		

**Candidate's name :** .....

**Candidate's signature :** .....

**School Random number :** .....

**District No. :**

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**Read the following 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 **16 printed papers** altogether.
3. Answer **all** questions. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than 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 the boxes inside the question paper.

FOR EXAMINER'S USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
<b>TOTAL</b>		

## SECTION A : 40 MARKS

Answer ***all*** the questions in this section.  
Questions **1** to **20** carry ***two marks*** each.

1. Work out:  $15 + 23$

2. Write 44090 in words.

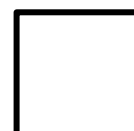
.....

.....

3. Given that  $\mathbf{T} = \{0, 1, 2, 3, 4\}$  and  $\mathbf{S} = \{0, 2, 4, 6\}$ . Find  $n(\mathbf{S} \cup \mathbf{T})$

4. Work out:  $\frac{1}{8} \times \frac{4}{5}$

5. Simplify:  $3p - 4a - p - 2a$



6. Find the next number in the sequence:

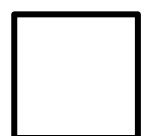
40, 38, 35, 30, 23, .....

7. Find the angle which is 17 times of its complement.

8. A man bought a shirt at sh 15,000. He later sold it making a loss of sh 2,750. At what price did he sell the shirt?



9. Henry walked a distance of  $\frac{3}{8}$  kilometres from home to school.  
What is this distance in metres?

10. Work out:

$$\begin{array}{r} 1\ 1\ 2_{\text{three}} \\ +\ 2\ 2_{\text{three}} \\ \hline \\ \hline \end{array}$$


11. Given that  $m = -3$ ,  $n = 2$  and  $p = 5$ . Find the value of  $(n - m)^2 + p$

12. The table below shows the number of oranges given to three pupils; Peter, Sarah and Alex.

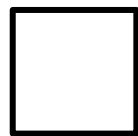
Pupil	Pictures	Number of oranges
Peter		24
Sarah		.....
Alex	.....	18

Complete the table above

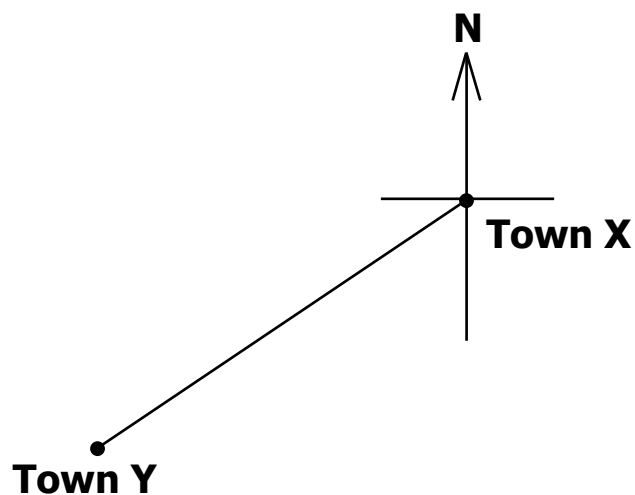
13. Write the number whose scientific notation is  $2.04 \times 10^{-1}$

14. Kapasi covers 30 km in  $1\frac{1}{4}$  hours. How long will he take to cover 48 km at the same speed?

15. Solve:  $2^k \div 16 = 2^{3k}$



16. The diagram below is accurately drawn. By measuring, find the bearing of **Town X** from **Town Y**.



17. The probability that Tina passes the examination is 0.63. Find the probability that Tina fails.
18. Joyce went sleeping at a quarter to midnight. Express this time in the 24 hour clock.
19. Work out:  $2 - 31 \pmod{7}$
20. A woman borrowed some money from a bank at an interest rate of 2% per year. After 3 years, she paid an interest of sh 180,000. How much was the loan?

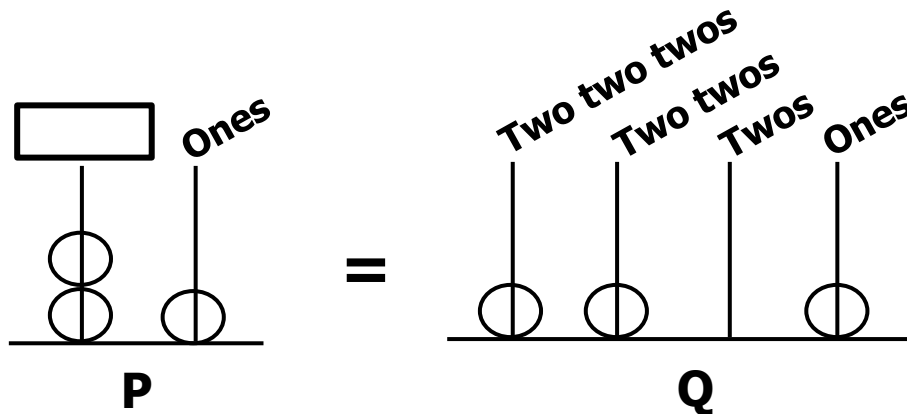


## SECTION B: 60 MARKS

Answer ***all*** questions in this section.

Marks for each question are indicated in brackets.

21. Study the abaci; **P** and **Q** below and use them to answer questions that follow.

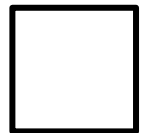


- (a) Write the number shown on abacus **Q**. (01 mark)
- (b) Find the missing place value on abacus **P**. (03 marks)

22. Siyema went shopping with sh 20,000 and bought the following items:

3 books at sh 2500 each  
 2 bars soap at sh 9000  
 8 pens at sh 5400 per dozen

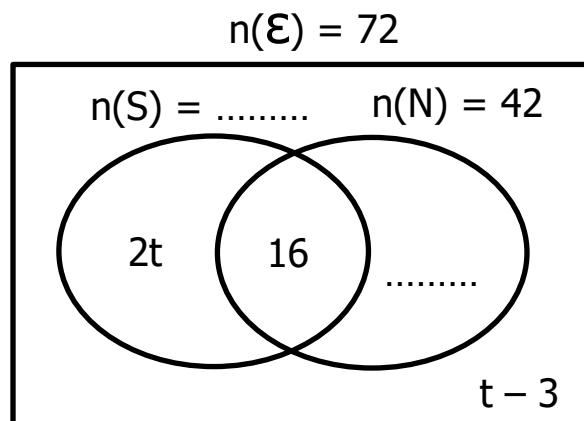
She was given a discount of sh 1600. How much money did she remain with? *(05 marks)*



23. In a class of 72 pupils, 42 enjoy reading novels (N),  $2t$  enjoy reading story books (S) only, 16 enjoy reading both story books and novels while  $(t - 3)$  read neither of the two reading materials.

(a) Use the given information to complete the Venn diagram below.

*(02 marks)*





(b) Find the value of  $t$ .

*(02 marks)*

(c) Find the number of pupils who enjoy reading story.

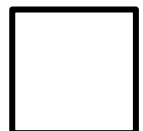
*(01 mark)*

24. (a) Work out:  $\frac{0.24}{1.2} - \frac{0.09}{0.5}$

*(03 marks)*

(b) Simplify:  $2\frac{1}{3} \times 1\frac{1}{5} \div 2\frac{1}{10}$

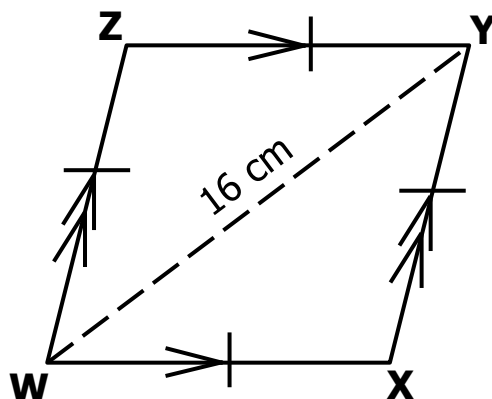
*(03 marks)*



25. (a) The centre angle of a regular octagon is  $45^\circ$ . Using a ruler, a pencil and a pair of compasses only, construct a regular octagon in a circle of radius 4cm. *(04 marks)*

- (b) Measure the length of each side. *(01 mark)*

26. The diagram below shows a rhombus WXYZ. Its perimeter is 40 cm and diagonal WY = 16 cm.



(a) Find the length of;

(i) line **WX**

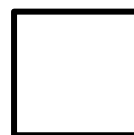
*(01 mark)*

(ii) diagonal **ZX**

*(02 marks)*

(b) Calculate the area of the rhombus.

*(02 marks)*



27. The interior angle sum of a polygon is  $1080^\circ$ .

(a) Name the polygon. *(03 marks)*

(b) Find the size of each exterior angle. *(02 marks)*

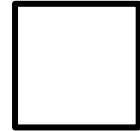
28. The table below shows the distance covered by a bus from Kampala to Yumbe via Pakwach, Arua and Koboko.

<b>Town</b>	<b>Distance in Km</b>
Pakwach	369 km
Arua	496 km
Koboko	550 km
Yumbe	655 km

(a) How far is Yumbe from Arua? *(02 marks)*

- (b) If the bus leaves Kampala at 7:48 p.m. moving at an average speed of 110km/h, at what time will it reach in Koboko?

*(03 marks)*



29. In a school library, there are English, Mathematics and Science books. 50% of the books are for English and this is a fifth more than the fraction of mathematics books. The number of science books is 60.

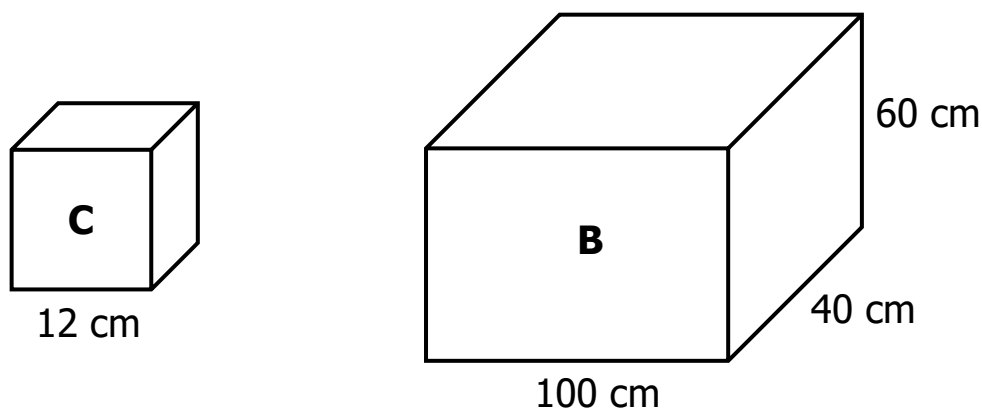
- (a) Find the fraction of mathematics books in the school library

*(02 marks)*

- (b) Calculate the total number of books in the school library.

*(04 marks)*

30. In a factory, cubes of size **C** are packed in boxes size **B**. Each cube contains 75 g of curry powder.

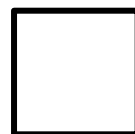


- (a) Find the maximum number of cubes packed in each box.

*(02 marks)*

- (b) Chumbi bought 150 boxes with cubes packed in them.  
Find in kilogrammes, the mass of curry powder he bought.

*(03 marks)*



31. Given that  $5(x + 1) - 2(x - 1) \geq 4$

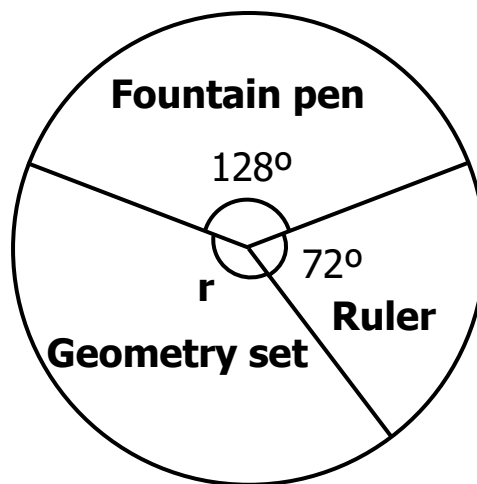
(a) Solve the above inequality.

*(03 marks)*

(b) If  $x$  is a whole number, write the first **two** values of  $x$ .

*(01 mark)*

32. The pie chart below represents the cost of 3 items. Use it to answer questions that follow.



(a) Find the value of  $r$  in degrees.

*(02 marks)*

- (b) If the geometry set costs sh. 1600 more than a fountain pen, how much money will I pay for 5 rulers? (03 marks)



**END**

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