UNIQUE STAR EXAMINATIONS BOARD

UNIQUE STAR EXAMINATIONS BOARD (USEB) 05 JUL 2024 DIRECTOR / CEO Tel: 0785 600 165 / 0703 078 891

PRE PRIMARY LEAVING MOCK SET ONE

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. : | | | | |

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 **15 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		
TOTAL		

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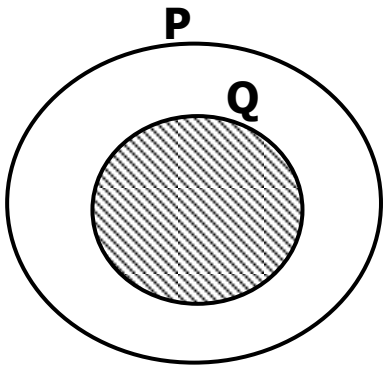
SECTION A : 40 MARKS

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

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

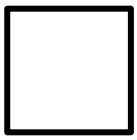
2. Write in figures: One hundred two thousand, twelve.

3. In the Venn diagram below, describe the shaded region



4. Simplify: $^{-}6 - {}^{+}2$

5. Change 12 kilogrammes into grammes.

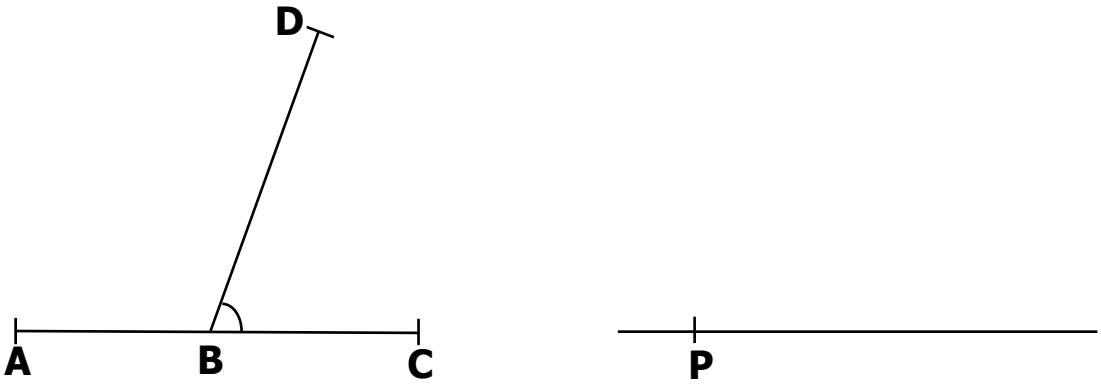


6. Use distributive property to work out: (15 × 364) + (236 × 15)

7. A forty five minute lesson ended at 1:10 p.m. At what time did the lesson begin?

8. Find the lowest common multiple (LCM) of 18 and 24.

9. Using a ruler, a pencil and a pair of compasses only, copy angle DBC onto point P.



10. Change 102_{three} to base ten.

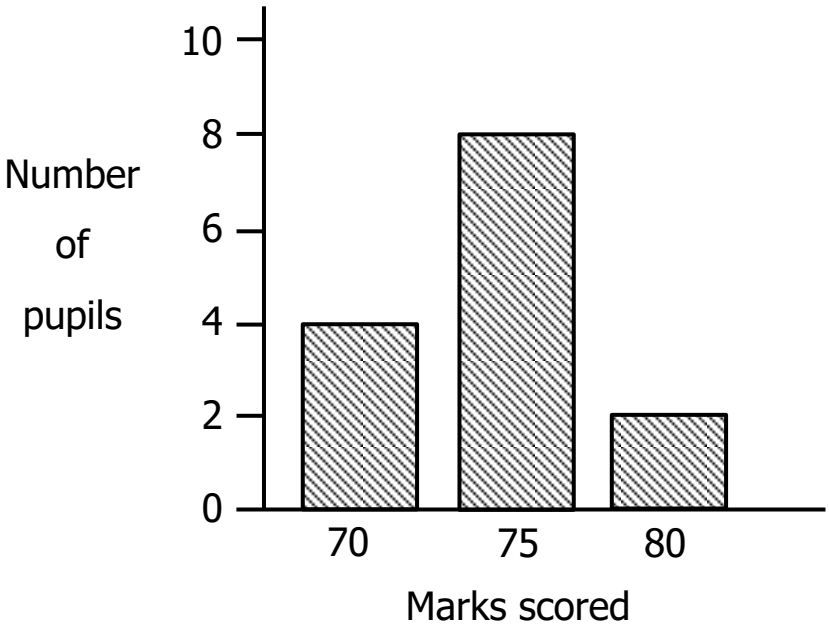
11. Find the next number in the sequence:

    1, 5, 11, 19, 28, ……

12. Given that $\boldsymbol{a} = 1$, $\boldsymbol{b} = 2$ and $\boldsymbol{c} = 3$. Find the value of;
    $\boldsymbol{a} + \boldsymbol{b} + \boldsymbol{c}(\boldsymbol{a} + \boldsymbol{b} + \boldsymbol{c})$

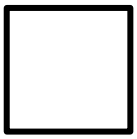
13. The interior angle of a regular polygon is 2 times more than its exterior angle. Find the size of each exterior angle of the polygon.

14. The bar graph below shows marks scored by pupils in a test. Use it to answer the question that follows.



Find their total score.

15. One hundred twenty five poles were used to fence a circular garden. The poles were placed 80 cm apart. Find in metres, the circumference of the garden.



16. If A = {0, 2, 4}. Find the number of subsets that can be obtained from set A.

17. Solve the inequality: $-2y < 6$

18. Round off 2,486 to the nearest hundreds.

19. By selling a dozen of pens at sh 7000, a trader makes a profit of sh 1600. How much money did the trader pay for each pen?

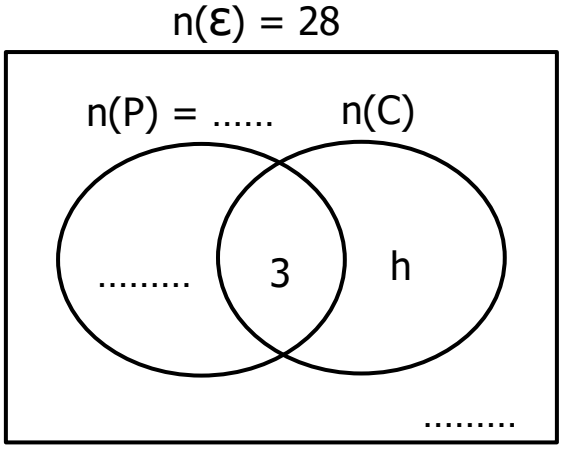
20. Arrange $\frac{2}{3}$, $\frac{1}{2}$ and $\frac{3}{4}$ in decreasing order.

SECTION B: 60 MARKS

*Answer **all** questions in this section.*
Marks for each question are indicated in brackets.

21. A party was attended by 28 guests. During lunch, 3 guests were served with both posho (P) and cassava (C), h guests were served with cassava only while 4 guests arrived after lunch. Given that, the number of guests who were served with posho was thrice the number of guests served with cassava only.

(a) Use the given information to complete the Venn diagram below. *(03 marks)*



(b) Find the value of h. *(02 marks)*

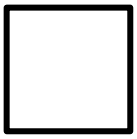
22. The sum of three consecutive multiples of 7 is 84.
Find these multiples. *(04 marks)*

23. (a) Work out: $1 \div 5 =$ ☐ (finite 6) *(03 marks)*

(b) In a certain Primary School, teachers change to the next class at the end of every year up to Primary Seven then directly back to Primary One respectively. Which class did the current Primary Four class teacher teach 10 years ago? *(02 marks)*

24. (a) Using a pair of compasses, a ruler and a pencil only, construct a polygon ABC such that angle ACB = 60^{o}, line AB is perpendicular to line BC and line BC = 4.5 cm. *(04 marks)*

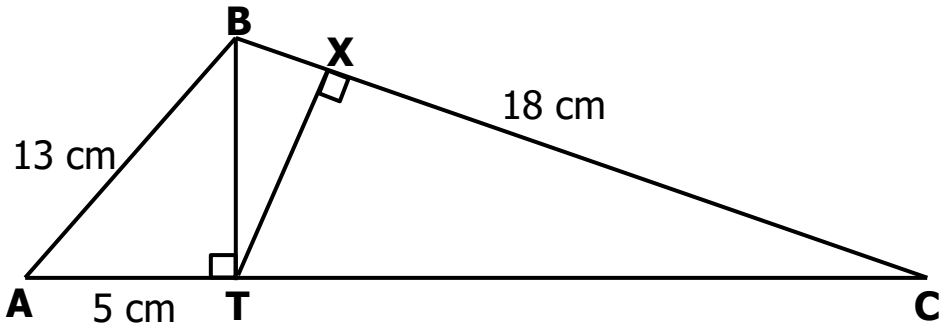
(b) Measure the length of line AC. *(01 mark)*



25. (a) Work out: $1\frac{1}{2} + \frac{2}{3}$ of 3^2 *(02 marks)*

(b) Simplify: $\dfrac{0.12}{4.8 \div 0.4}$ *(03 marks)*

26. In the figure below, ABC is a triangle whose area is 102 cm^2. Lines; TA = 5 cm, AB = 13 cm and BC = 18 cm. Use it to answer questions that follow.



(a) Find the area of triangle ABT. *(03 marks)*

(b) Find length TX in centimetres. *(03 marks)*

27. Mukiibi went to the market with a bundle of one thousand shilling notes numbered consecutively from **AX 3492897** to **AX 3492946**. He bought the following items;

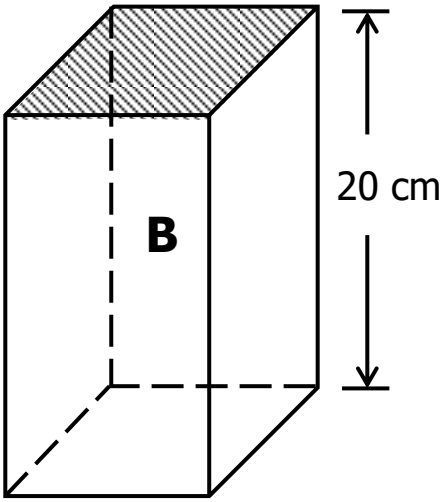
2 bars of soap at sh 9500
500 g of salt at sh 1200 per kg
$2\frac{1}{2}$ kg of rice at sh 4800 each kilogram

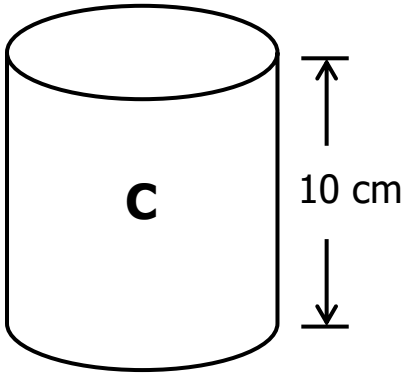
(a) Calculate his total expenditure. *(03 marks)*

(b) How much money did he remain with? *(03 marks)*

28. A taxi which travels at 60km/h leaves **Town A** at 10:30 a.m. and reaches **Town B** at 1:15 p.m. Find in kilometres, the distance between the two towns. *(04 marks)*

29. In the figures below, containers B and C have the same volume. The area of the shaded part of container B is 77 cm^2. Study the figures carefully and use them to answer the questions that follow.





(a) Calculate the volume of container **B**. *(02 marks)*

(b) Find the radius of container **C**. (Use $\pi = \frac{22}{7}$) *(03 marks)*

30. In a class, $\frac{1}{3}$ of the pupils are boys, three quarters of the boys are boarders and the rest are day scholars. There are 32 girls in the class.

Find the;

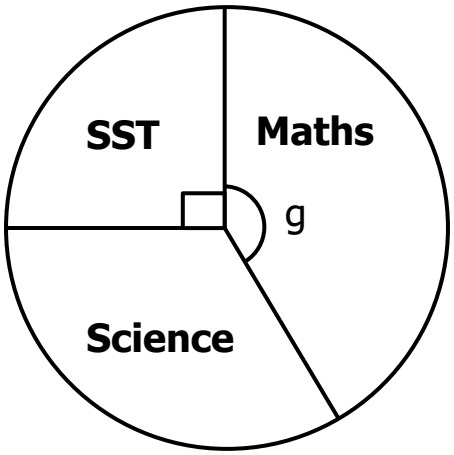
(i) total number of pupils in the class. *(02 marks)*

(ii) number of boys who are day scholars (*03 marks)*

31. Alex is twice as old as Benon. Cate's age is two thirds of Benon's age. 3 years ago, Cate was 5 years old.

How old is Alex? *(04 marks)*

32. The pie chart below represents 60 pupils in a class who passed different subjects. Use it to answer questions that follow.



(a) Given that 20 pupils passed Science, find the value of g in degrees. *(03 marks)*

(b) How many more pupils passed Maths than SST? *(03 marks)*

END

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