



**THE REAL PRIVATE TEACHERS' VOICE EXAMINATIONS BOARD**  
**PRIMARY LEAVING EXAMINATIONS TRIAL**  
**2024**

**MATHEMATICS – SET FIVE**

*Time allowed: 2 Hours 30 Minutes*

Index no:

Random No					Personal No				

Candidate's name: .....

Candidate's signature: .....

School: .....

District: .....

**Read the following instructions carefully**

1. This paper is made up of two sections: **A** and **B**.
2. Section **A** has **20** questions (**40** marks).
3. Section **B** has **12** questions (**60** marks).
4. Answer **ALL** questions in both sections **A** and **B**.
5. All answers **MUST** be written in the space provided  
In blue or black ball point pens or ink. All diagrams  
Should be in pencil.
6. Unnecessary crossing of answers will lead to loss of  
Marks.
7. Poor hand writing which cannot be easily read,  
May lead to loss of marks.

FOR EXAMINERS' USE ONLY		
Qn.No	MARKS	SIGN
1-10		
11-20		
21-22		
23-24		
25-26		
27-28		
29 - 30		
31 - 32		
TOTAL		

**The Real Private Teachers' Voice Examinations Board 2024.**

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SECTION A (40 MARKS)

1. Workout: 6 hundreds + 9tens

2. Workout :  $\frac{2}{5} \times \frac{1}{2}$

3. Find the L.C.M of 8 and 14.

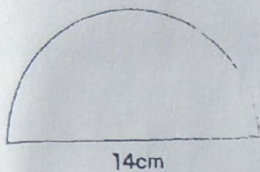
4. By selling a shirt at shs75,000, Jimmy lost 25% of what he paid for it. How much did he pay for it?





5. Work out: 
$$\begin{array}{r} 324_{\text{five}} \\ + 121_{\text{five}} \\ \hline \end{array}$$

6. Find the perimeter of the figure below.



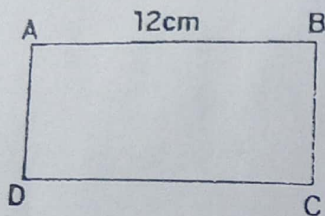
7. Find the centre angle of a regular octagon.

8. Express 125g as a percentage of a kilogram.

9. Simplify :  $2(7 - a) - (8 - a)$

10. Change 1725 hours to 12 hour clock time.

11. If the area of the triangle ABCD below is  $60\text{cm}^2$ . Find the length of the diagonal AC.



12. Six men take 10 hours to weed a garden of maize. How long will 4 men take working at same rate.

13. Find the next number in the sequence.

1, 3, 6, 10, 15, \_\_\_\_\_, \_\_\_\_\_





14. A minute hand of a clock makes  $2\frac{1}{4}$  revolution to cover the time of science Examination. If the examination starts at 9:45 am. At what time did it end?

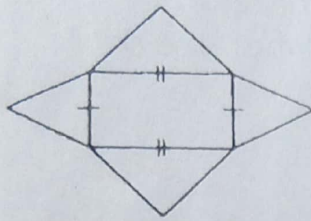
15. If today is Sunday, what day of the week was 72 days ago?

16. Set  $A = \{a, e, i, o, u\}$ , Find the number of proper subsets in set A

17. Write 19 in Roman numerals.



18. Name the solid figure whose net is given below.



19. The distance on a map between villages A and B is 5cm. Given 1: 120,000 Find the actual distance on the ground between the two villages. (Give the answer in KM)

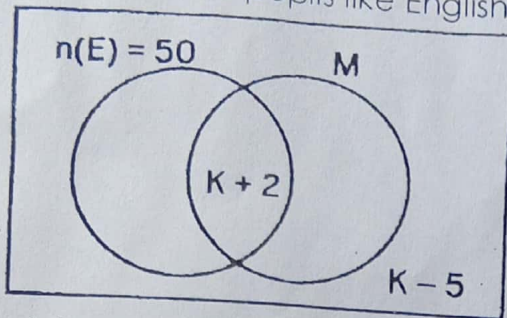
20. The temperature of a day in the morning was  $-5^{\circ}\text{C}$ . During the day, it has risen by  $10^{\circ}\text{C}$ . find the new temperature of the day.





### SECTION B

21. In a class, 50 pupils like English (E), 25 pupils like Mathematics (M) only



- a) Complete the Venn diagram above. (2mks)  
 b) Given that 30 pupils do not like English; find the value of K. (3mks)

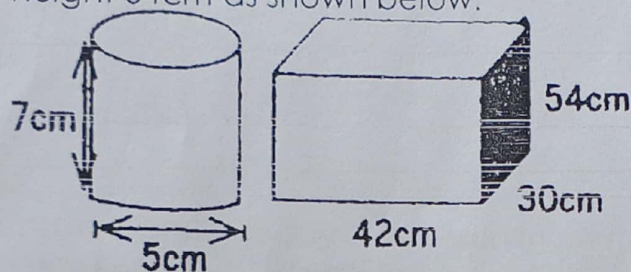
22.a) Workout:  $\frac{0.36 \times 0.08}{0.3 \times 0.04}$  (3mks)

b) Solve:  $2.1w - 9 = 0.3w$  (2mks)



23. The sum of four consecutive odd numbers is 136. Find the numbers. (5mks)

24. Dream Vaseline processing factory fills finished products in cylindrical tins of diameter, 5cm, height 7cm then packed in boxes of length 42cm, width 30cm and height 54cm as shown below.



a) How many cylindrical tins of Vaseline can be packed in such a box? (3mks)





b) If each tin of Vaseline costs sh2,500, how much money should one pay to buy 3 boxes of the products (2mks)

25. A house maid was sent to a supermarket and did shopping as shown in the table below. Study it and complete the table below (5mks)

Item	QTY	PRICE PER KG	AMOUNT
Sugar	_____	Shs 2,400	Shs. 12,600
meat	8kgs	Shs _____	Shs. 72,000
Rice	3kgs	Shs. 3,800	Shs. _____
Spices	2½	Shs. 2,000	Shs. _____



26. A tank is  $\frac{3}{5}$  full of water. When 210 litres are removed, it remains  $\frac{2}{5}$  full. How much water can it hold when it is  $\frac{1}{2}$  full? (5mks)

27.a) Solve for :  $\left[ \frac{2x+1}{3} \right] + \left[ \frac{x-1}{2} \right] = 4$  (3mks)

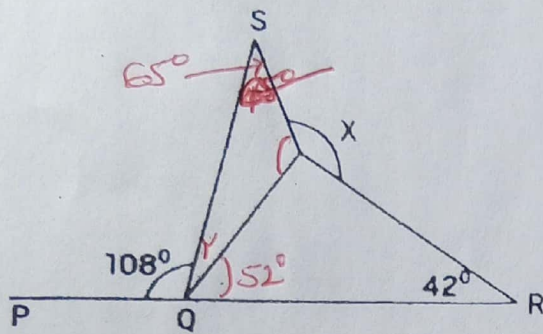
b) Given that :  $a = b$ ,  $c = 4$  and  $b = 5$ , Find the value of  $(a+c)(b^2-5)$  (2mks)





28. Use the figure below to answer the following questions.

a) Find the value of Y. (2mks)



b) Find the value of X. (2mks)

29. Goral bought 720 eggs at Shs6,000@ dozen. Unfortunately, 50 eggs got broken. He sold the remaining eggs at Shs700each. How much profit did he make? (4mks)



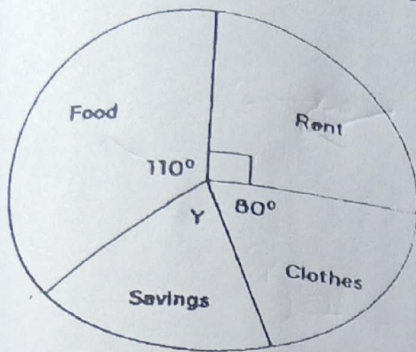
30. The average weight of 4 children is 55kgs when the 5<sup>th</sup> child is added the average becomes 58kg. What is the weight of the 5<sup>th</sup> child? (4mks)

31. Ogwang travelled from town P to Q for four hours at an average speed of 60km/hr and continued to town R at a speed of 50km/hr for 6hrs. Calculate his average speed for the whole journey. (6mks)





32. The pie chart below shows how mukasa spends his monthly salary.  
a) Find the value of Y. (2mks)



- b) If he spends Shs.36,000 on clothes, how much does he earn per month? (3mks)

- c) How much more money does he spend on food than he saves? (2mks)



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S.5 - S.6	1,500,000/=	S.5 - S.6	500,000/=

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