



SOROTI CITY ACADEMY COMMITTEE
MOCK 2023
PRIMARY SEVEN



MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Index No.	Random No.					Personal No.		

Name:

School:

Signature:

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

1. The paper has 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. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball-point pen or ink.
Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated for examiners' use only.

FOR EXAMINERS' USE ONLY

QN. NO	MARKS	EXR'S NO
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

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23. In the school library $\frac{1}{2}$ of the books are for maths, $\frac{1}{4}$ are for SST and $\frac{1}{2}$ of the remainder are for science. If there are 36 science books, how many books are in the library? (5marks)

24. A father is five times as old as his son. In 5 years' time, the difference in their age will be 32 years.

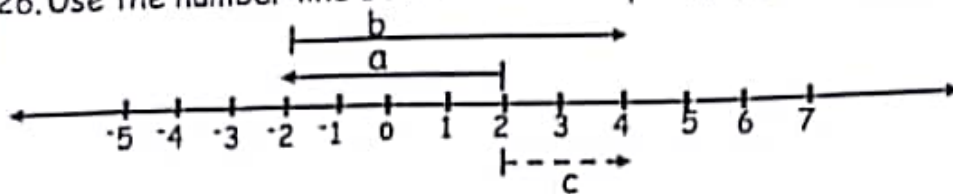
(a) How old is the father now? (3marks)

(b) How old will the son be in 5 years time? (2marks)

25. a) A Uganda student won a scholarship worth Ug. Shillings 10,800, 000. How much money is this in Euros if 1Euro = Ug. shs 6000? (2marks)

b) If Tz shs. 1=Ug shs. 1.5, how much Ug . shs are in Tz shs. 2000?(3marks)

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



(a) Write the integers represented by

(1mark @)

i) a _____

ii) b _____

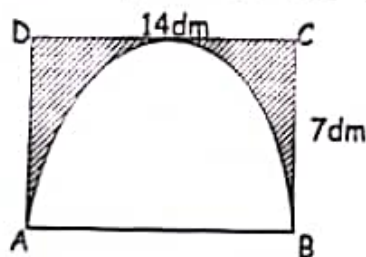
iii) c _____

(b) Find the solution set for the inequality:

$2y + 3 \leq 7$, where y is a whole number.

(3marks)

27. The figure below shows an enclosed semi-circle in a rectangle use it to answer questions that follow. (a) Find the area of the shaded part. (4marks)



28. The interior angle and exterior angle of a regular polygon are in a ratio 3:2 respectively. Calculate the size of each exterior angle. (2marks)

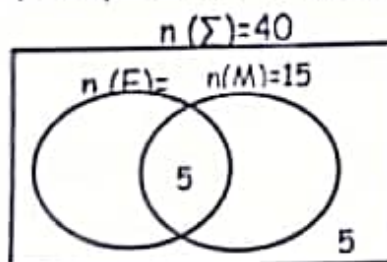
b) What is the name of the polygon? (3marks)

19. 4 men take 9 days to do a job. How long will 12 men take to do the same job at the same rate?
20. A man deposited shs. 60,000 for 2 years at a simple interest rate of 5% pa calculate his interest.

SECTION B (60 MARKS)

21. (a) Find the product of the value of 8 and the place value of 5 in the number 86.52. (2marks)
- (b) Expand the above number using exponents. (2marks)

22. In a class of 40 pupils, R pupils like English (E), 15 pupils like Math (M), 5 like both subjects while 5 do not like any of the two subjects. (2marks)
- (a) Complete the Venn diagram below.



- (b) Find the value of R. (2marks)
- (c) What is the probability of picking a pupil who likes one subject to be a class monitor? (1mark)

9. (a) What base number has been expanded to give $(1 \times 3^2) + (0 \times 3^1) + (2 \times 3^0)$ (2mark)

b) Write 253 in standard form. (2marks) c) Convert 241_{five} to denary base. (2 marks)

30. (a) Electric poles are fixed at equal intervals of 50m apart. If there are 51 poles, find the distance from the first pole to the last pole. (2marks)

b) Find the sum of the first five odd numbers. (2marks)

31. Town K is 50km East of Town L and town M is 70km from town K on a bearing of 150° using 1:10.

(a) Make a sketch showing the positions of three towns. (1mark)

(b) Draw the accurate diagram to show above information.

(3marks)

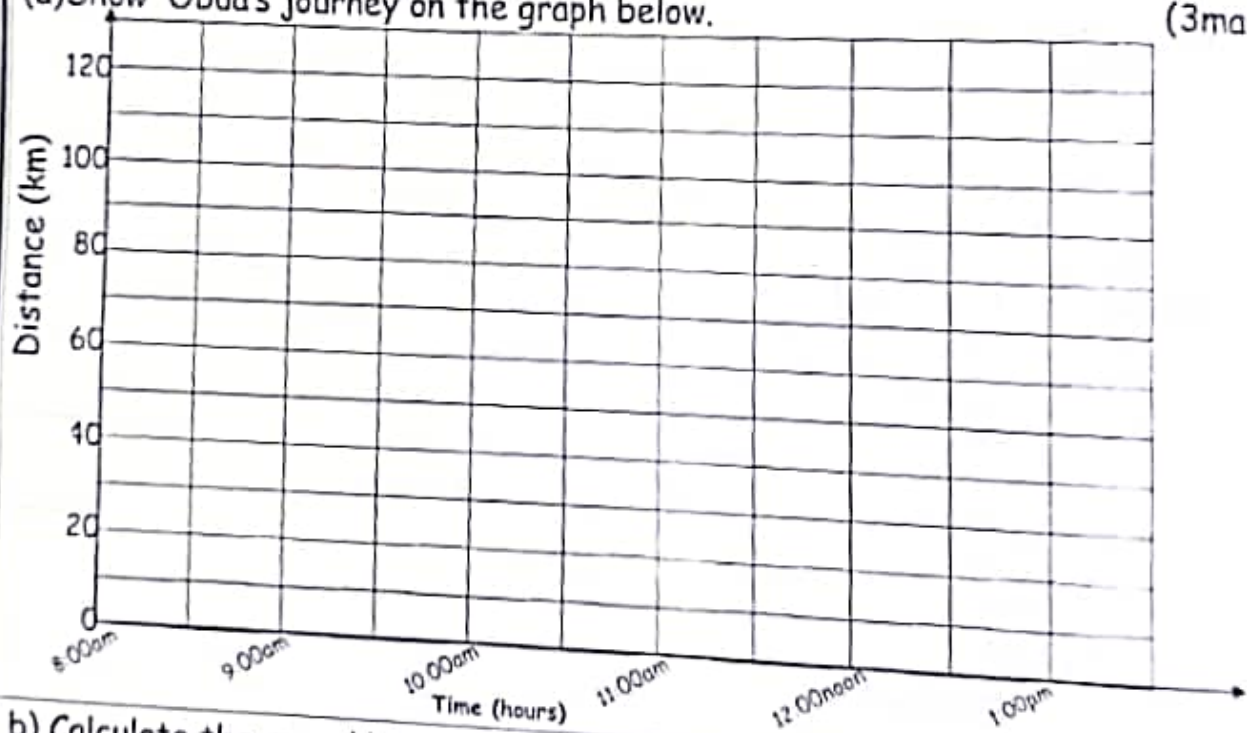
(c) Find the shortest distance in Km between L and M

(2marks)

32. Obua left town A at 8:00am travelling at a speed of 30k.p.h for 2 hours to town B. He rested for 1 hour and continued for 60km to town C in $1\frac{1}{2}$ hours

(a) Show Obua's journey on the graph below.

(3marks)

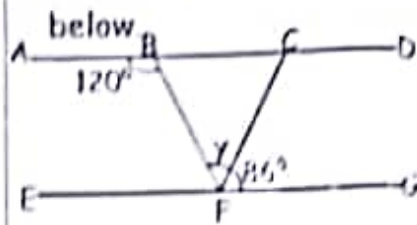


b) Calculate the speed between town B and town C.

(2marks)

11. Increase shs 30,000 by 20%

12. Find the value of Y on the diagram



13. If $32p = 24_{five}$, Find the value of P

14. Using a ruler, a sharp pencil and a pair of compasses only, construct angle of 60°

15. Given that $a=3$, $b=-4$. Find the value of $a-2b$

16. A baby slept at 10:30pm and wake up at 6:00 am. How long did it take sleeping?



17. Find the GCF of 24 and 36

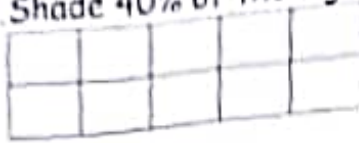
18. Find the next number in the sequence, 125, 64, 27, 8 _____

SECTION A

1. Multiply: $\begin{array}{r} 102 \\ \times 4 \\ \hline \end{array}$

2. Write 240 in words

3. Shade 40% of the figure below.



4. Simplify: $^{-}2 - ^{-}3$

5. Describe the shaded part on the Venn diagram below

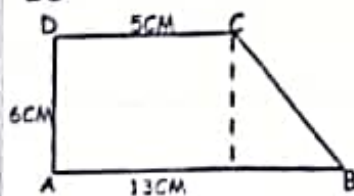


6. Workout: $2m + 5k + 4m - 2k$

7. Express 54km/hr to m/s

8. A bursar issued the receipts numbered from 03754 to 03798 to all primary seven pupils who had cleared school fees. How many pupils are in the class?

9. Use the figure below to find the length BC



10. The average of n , $(2n-3)$ and 6 is 6. Find the value of n