



SOROTI CITY ACADEMIC COMMITTEE MOCK ASSESSMENT 2024 PRIMARY SEVEN



MATHEMATICS

Time Allowed : 2 Hours 30 Minutes

Index No.	Random No.					Personal No.		

Name:.....

School:.....

Signature:.....

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**FOR EXAMINERS'
USE ONLY**

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 section 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

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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SECTION A

1. Workout: $6 \div 2$

2. Write CXCV in Hindu Arabic numerals.

3. Simplify: $3 - 2(n-1) + 5n$

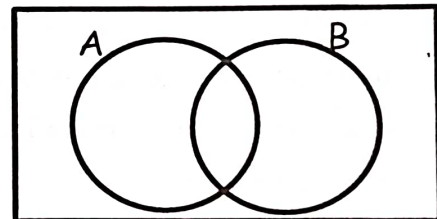
4. Change 13 20 hours in 12 hour clock.

5. Convert 4.5 tonnes to kilograms

6. Simplify: $1\frac{1}{4} - \frac{1}{2}$ use big figures

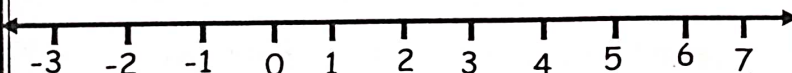
7. Find the square root of 225.

8. Shade $(A \cap B)^1$

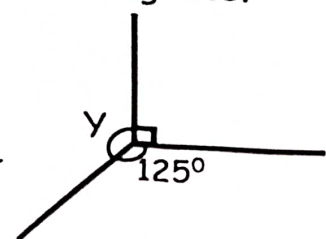


9. Workout $2 \times +3$ using the number line below.

10. Use distributive property to simplify $(125 \div 5) - (25 \div 5)$.



11. Find the value of y in the figure below in degrees.



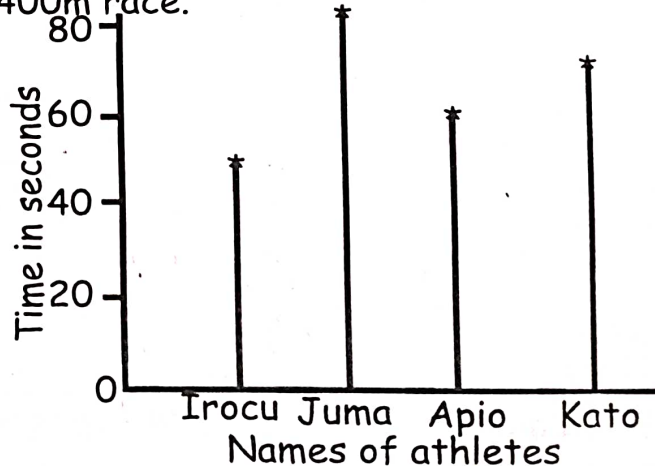
12. Workout the mean of m , $3m - 5$ and $2m - 7$

13. Mr. Olupot borrowed sh. 200,000 from a village saving sacco at an interest rate of 10% per month for 3 months. Calculate the simple interest made.

14. Using a ruler, a sharp pencil and a pair of compasses only, construct angle of 75°

15. After covering $\frac{4}{7}$ of the journey, Akello still had 21 km to go. How long was the whole journey?

16. The line graph below shows the time four athletes used to cover a 400m race.



Calculate Irocu's average speed

17. Complete the number sequence
14, 16, 19, 21, 24, ____, ____

18. Write 4672 in standard form.

19. Solve for X: $2^{4x} \div 16 = 1$

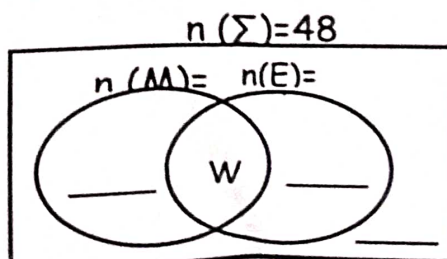
20. Round off 67.852 to the nearest tenths.

SECTION B (60 MARKS)

21. (a) What is the place value of 2 in the base numerals 1234_{five} (1mark)

(b) Find the missing base x in $21_x = 13_{\text{ten}}$ (3marks)

22. In a class of 48 pupils, 24 pupils like Maths (M), W like both subjects, 20 like English only and W + 2 like none of those subjects
Use the above information to complete the Venn diagram below. (3marks)



(b) Find the value of W

(2marks)

(c) If a pupil is picked at random. What is the probability of picking a pupil who likes only one subject? (1mark)

23. In a class $\frac{3}{5}$ of the pupils are girls, $\frac{1}{6}$ of the boys have sportswear and $\frac{1}{3}$ of the girls do not have sportswear. How many pupils are in the class altogether if 24 pupils do not have sports wear? (4marks)

24. Study and complete the shopping bill.

(4marks)

item	quantity	Unit cost	Amount
Sugar	2kg	Sh. 4000	sh. 8000
Rice	2kg	Sh. 3500	sh. _____
Meat	_____	Sh. 14000	sh. 21000
Cooking oil	3 litres	Sh. _____	sh. 9000
Total expenditure			sh. _____

b) If a discount of 5% was given to a customer, how much was paid?

(2marks)

25. Musa, Mary and Moses contributed money in the ratio 2:3:5 respectively. If their total contribution was sh. 80,000. Find the amount contributed by each of them. (4marks)

26. The interior angle of a regular polygon is 135° .

a) How many sides has the polygon? (3marks)

b) Name the polygon. (1mark)

c) Calculate the interior angle sum of the polygon (2marks)

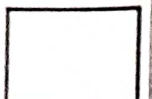
27. Solve: $3(x-2)-4(x-2) = 7$ (3marks)

b) Find the value of $\frac{m}{p}$, if $m = 2p$ and $p = 4$ (2marks)

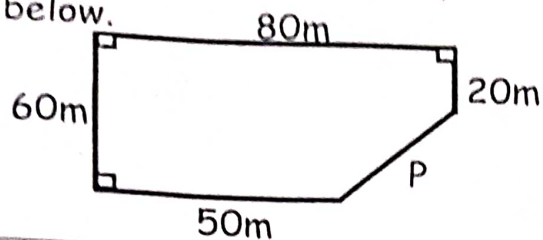
28. The table below shows the marks scored by pupils in a test.

Marks	40	30	70	60
No. of pupils	2	2	n	1

if the mean mark is 55, how many pupils did the test? (4marks)



29. Study the figure that represents a plot of land and answer questions below.



a) Find the value of P

(3marks)

b) Workout the perimeter of the plot of land

(2marks)

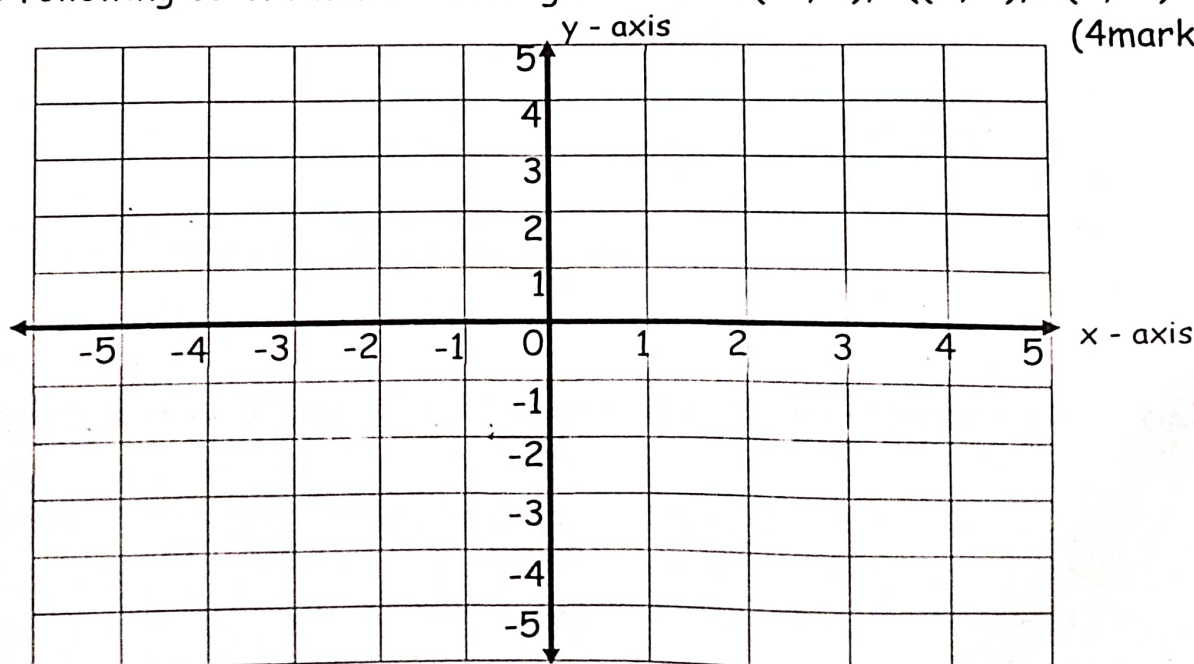
30. A bus left town A for town B at a speed of 80km/h for $1\frac{1}{2}$ hours. It rested for 30 minutes at town B and continued to town C a distance of 90 km at a speed of 45km/h.

a) How far is town A from town C?(2mks)

b) How long did it take to travel from town B to town C? (2marks)

31. Study the grid below and answer the questions about it.

a) Plot the following co-ordinates on the grid above P(-2, 4), Q(2, 4), R(5, -1) and s(-2,-1) (4marks)



b) Join points P to Q, Q to R, R to S and S to P (1mark)

(c) Name the figure formed. (1mark)

32. A kitchen is 80m west of the borehole and the library is 60m away from the Kitchen on the bearing 225° .

a) Draw a sketch to show the three places. (1mark)

b) Draw an accurate diagram to locate the three places. Using a scale of 1cm to represent 10m (4marks)

d) Find the shortest distance between the library and the Borehole. (1mark)

END