



AMURIA DISTRICT PRIMARY SCHOOLS MOCK 2023



PRIMARY SEVEN

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Index No.

Random No.						Personal No.		

Name:

School:

Signature:

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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		

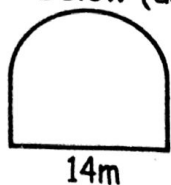
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SECTION A (20 QUESTIONS - 40 MARKS)

- | | |
|---|--|
| 1. Workout: 15×6 | 2. Write in figures forty six thousand, fifty nine |
| 3. Find the next number in the sequence 42, 40, 37, 32, _____ | 4. Write 449 in Roman numerals. |
| 5. Given that $a = \frac{3}{4}$ and $b = \frac{1}{8}$. Find the value of $\frac{a}{b}$ | 6. If a dice is tossed once, what is the chance of getting a square number appearing on top? |
| 7. Opio started his journey at 11:20am and covered a distance of 140km. If he arrived at 1:00pm, at what speed did he move? | 8. Solve: for d: $\frac{2d}{3} + 4 = 10$ |
| 9. Using a ruler, a pencil and a pair of compasses only, construct an angle of 75° | 10. Find the mean of: 2n, 3n, 0,7 and 3 |

11. Calculate the perimeter of the figure below (use $\pi = \frac{22}{7}$)



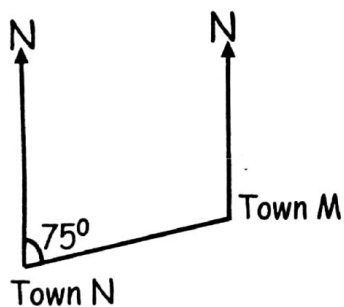
12. Given that set $P =$ the first 5 prime numbers

Find $n(P)$

13. Change 7_{ten} to binary base

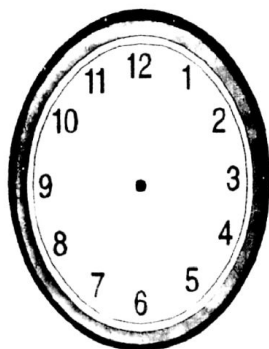
14. Write 6784 in scientific notation .

15. Use the figure below to find the bearing of Town N from Town M



16. A lady deposited shs. 120,000 in her account at the rate of 6% per month. Calculate the simple interest she will get after 5 months.

17. Show fifteen minutes to midday on the clock



18. Round off 65496 to the nearest tenth

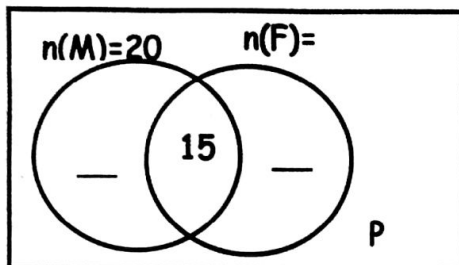
19. Simplify: $-6 - -3$

20. Find the square root of $12\frac{1}{4}$

SECTION B

21. In a class party of 35 pupils, 12 drank Fanta (F) only, 20 drank mirinda (M), 15 drank both fanta and mirinda while P did not drink any of the two sodas.

(a) Use the information above to complete the Venn- diagram below (each 1mk)



(b) Find the value of P (2marks)

(c) What is the probability of picking a pupil who did not drink any of the sodas? (1mark)

22. (a) Workout: $\frac{0.45 \times 0.18}{0.06 \times 1.5}$ (3marks)

(c) Change 0.3636.....to a common fraction in its simplest form. (2marks)

23. Okello a business person in Amuria town council bought 3 bags of maize at shs. 40,000 per bag each weighing 100kg. He sold the maize at 420 per kg.

a) How much money did he get after he had sold all the 3 bags of maize? (3marks)

(b) What percentage profit or loss did he make? (3marks)

24. (a) Solve for X = $5(X + 1) - 3(X - 1) = 14$
(3marks)

(b) Solve and write the solution set for $4 - 2k \geq 16$
(3marks)

25. The bill table below shows the items Mr Okurut bought. Complete it correctly.
(show the working) (6marks)

Item	Quantity	Unit cost	Amount
Sugar	2kg	Shs. 4,800 per kg	Shs _____
Bread	2loaves	_____ per loaf	Shs 5600
Tea leaves	500g	Shs. 7000 per	Shs _____
Soap	_____	Shs 6500 per bar	Shs _____
Total	Expenditure	_____	Shs 38200

26. The interior angle of a regular polygon is 3 times the exterior angle.

(a) Find the number of sides the polygon has. (2marks)

(b) Calculate its interior angle sum. (2marks)

27. (a) Using a ruler, a pencil and a pair of compasses only construct a triangle ABC where $\angle ABC = 90^\circ$, $BC = 8$ cm and $\angle BCA = 30^\circ$ (4marks)

(b) Measure :- (i) $\angle BAC$

(ii) The line AC cm. (1mark@)

28. Given the number 4789.26

(a) What is the place value of 4? (2marks)

(b) Find the quotient of the value of 8 and the value of 2. (2marks)

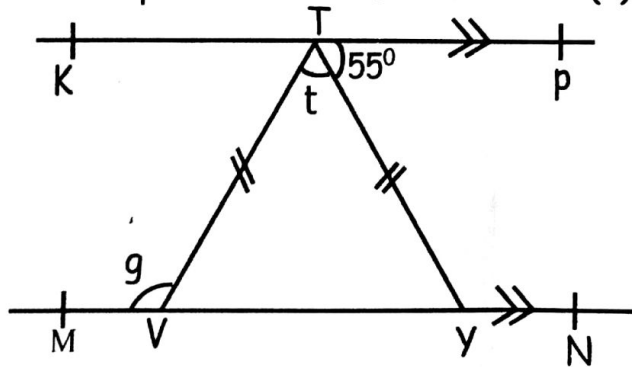
29. The timetable below is for the bus travelling from Mbale to Kampala. Use it to answer the questions that follow.

Town		
Mbale	Departure	9:00am
Tororo	Arrival	9:45am
	Departure	10:00am
Iganga	Arrival	11:15am
	Departure	11:30am
Jinja	Arrival	12:00noon
	Departure	12:20 p.m
Kampala	Arrival	1:30 p.m

a) How long does the bus take to travel from Mbale to Kampala? (2marks)

(b) If Kampala is about 252km from Mbale find the average speed of the bus (2marks)

30. In the figure below, \overline{KP} is parallel to \overline{MN} and TVY is an isosceles triangle. Use it to answer the questions that follow.



(a) Find the size of angle t (2marks)

(b) angle g

(2marks)

31. Simplify :

(a) $a^6 \times a^2$

(1mark)

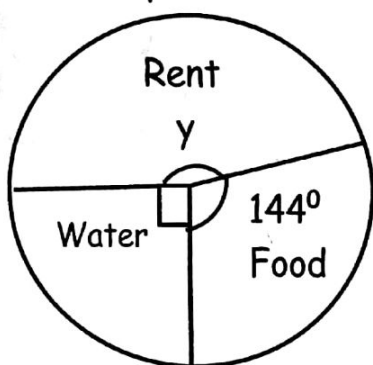
(b) $M^5 \div M^3$

(1mark)

(c) $\frac{t^4 \times t}{t^3}$

(2marks)

32. The pie- chart below shows how Mr. Okello spends his monthly salary. Use it to answer the questions that follow.



(a) Find the value y

(2marks)

(b) If he spends shs 54, 000 more on food than on rent, how much is his monthly earning?

(3marks)

(c) What percentage of his monthly salary does he spend on water? (1mark)