OMORO DISTRICT ACADEMIC COMMITTEE

PRIMARY SEVEN MOCK ASSESSMENT 2024

MATHEMATICS

TIME ALLOWED 2 HOURS 30 MINUTES

EMIS NO.						PERSONAL		

CANDIDATE'S NAME:.....

CANDIDATE'S SIGNATURE: .....

DISTRICT:.....

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

Read the following instructions carefully

1. This paper has two sections A and B.
2. All the working for both sections A and B must be shown in the spaces provided.
3. All working must be done using a blue or black ball-point pen or fountain pen. Diagrams should be drawn in pencil.
4. No calculators are allowed in the examination room.
5. Unnecessary changes of work may lead to loss of marks.
6. Any handwriting that cannot be easily read may lead to loss of marks.
7. Do not fill any thing in the boxes indicated: "For Examiners" Use only and those inside the question paper.

FOR EXAMINER'S USE ONLY		
QN NO.	MARKS	EXR'S NO.
01-05		
06-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A

1. **Work out:** 5x 3

2. What is the place value of the underlined number in 3**0**1468?

3. **Work out**: 3 - 6 = _____ (finite 7) using dial method.

4. Draw a venn diagram to show that **AnB** = B

5. What is the square of **9**?

6. Change 0.2121... to a vulgar fraction.

7. **Subtract:**

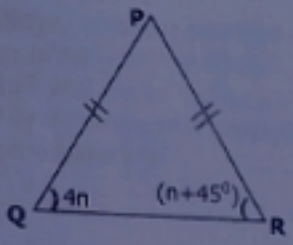
	Hrs	Mins
	3	20
-	1	40

8. The mean age of 4 girl is 14 years. If one girl leaves the group, their mean becomes 13 years. How old is the girl who left?

9. A school bursar collected money with serial number from AB086402 to AB086500. Calculate the numbe of notes he received.

10. **Solve for b:** $3b - 4 = 32$.

11. In the figure below, find the value of n.



12. How many litres can be got from 2400 millilitres?

13. What number has been expanded to give 6.43×10^{-3}?

14. A trader bought a car at sh. p and sold it at sh. 15,000,000. If he made a profit of sh. 2,000,000, calculate the value of p.

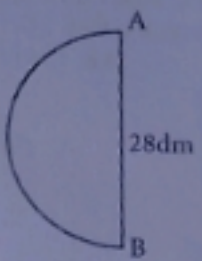
15. Given that **n (B) = 5**, find the number of proper subsets formed from set B.

16. In the space below, construct an angle of $\mathbf{105^0}$ using a pair of compasses, a ruler and a pencil only

17. **Given that:** $5^{2p} \times 5 = 125$, find the value of **p**.

18. In a village, children counted the number of bicycles as 45167, cars as 56137 and motorcycles as 4210. How many means of transport were counted altogether?

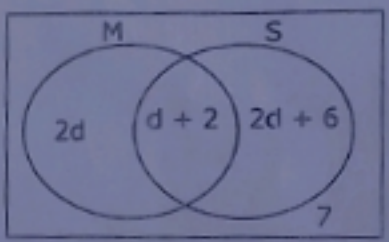
19. What is the length of the arc AB in the diagram below? (Use $\pi = \frac{22}{7}$)



20. Given that $\frac{3}{4}$ of the pupils in a class are girls.
Find the total number of pupils in class if there are 25 boys.

SECTION B

21. The venn diagram below shows the number of candidates who like Mathematics (M) and Science (S). Use it to answer the questions that follow.



a) Given that 17 pupils don't like Science, calculate the value of d. (2mks)

21b) If a candidate is selected at random, what is the probability that a candidate likes both subjects. (3mks)

22a) In the recent concluded population census, a number of household in a certain village was represented as $2^3 \times 6^2 \times 5^0$. How many households are in the village? (3mks)

b) If each family registered was to be given 3 bags of maize seeds. How many bags of maize seed were given out? (2mks)

23. A P.5 pupil spent her pocket money as follow, $2/5$ on books, $1/3$ on pens $1/4$ of the remainder on pads and saved the rest.

a) What fraction did she save? (4mks)

b) If she saved shs. 3000, how much money was she given before? (2mks)

24a) Convert 5m/9sec to km/h. (3mks)

24b) What is 12:03am in 24 hour system? (1mk)

25. Study the mother's shopping list for her son's birthday party and complete the table. (5mks)

ITEM	QUANITY	UNIT COST	AMOUNT
Soda	12 bottles	sh. 1000 @ bottle	Sh. .....
Cake	$1\frac{1}{2}$ pieces	Sh.....@ piece	Sh. 7500
Meat	7kg	Sh.....@kg	Sh. .....
Rice	.....Kg	Sh. 3000 kg	Sh. 15,000
Total Expenditure			Sh. 62,500

b) If she was given a discount of 10%, how much did she pay? (1mk)

26) Two trucks delivering sand at a construction site, they delievered sand at different intervals. Track **A** would deliver after 25 minutes and track **B** after 20 minutes. If they first delivered at the same time, after how many hours would they deliver the sand at the same time? (4mks)

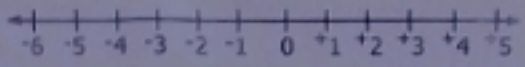
27a) Round off 36.879 to the nearest whole number. (2mks)

b) Given that $1K3_{four} = 52_{five}$, find the value of K. (3mks)

28a) Using a pair of compasses, sharp pencil and a ruler only construct an equilateral traingle KCB in a circle of radius 3cm. (4mks)

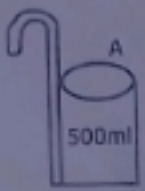
b) Measure line KC. (01 mks)

29a) Work out $^{-}8 + {}^{+}7$ on the numberline below. (3mks)



b) The training for enumerators started on Monday and took 20 days. On which day of the week did it end? (2mks)

30. A family got visitors on Easter. The visitors were served tea with container A.



a) If each visitors was served 4 containers of A scopping from container B, how many visitors were there? (3mks)

During serving tea, visitors were asked to sit in a circle of intervals 1.5 metres apart to avoid the spread of read eyes. Calculate the total distance covered by the visitors. (2mks)

31a) Find the value of m in
$2(7-m) - 8(1-m) = 24$ (3mks)

b) **Simplify:** $2b - 4y - 3b + 5y$ (2mks)

32. The class teacher of P.6 recoreded the number of pupils who were absent in week one, out of 40 pupils in the class. Study the graph and answer the questions that follow

Days of the week	Pupils
Monday	5
Tuesday	1
Wednesday	3
Thursday	2
Friday	3

Key:
= 5 pupils

a) On which days did he record the same number of pupils? (1mk)

b) How many pupils attended on Monday? (2mks)

c) On which day did the least number of pupils attended? (1mk)

d) On which day did the teacher record the biggest number of pupils? (1mk)

END