KAMWENGE DISTRICT ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATION, 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random Number						Personal Number		

Candidate's Name:.....

Candidate's Signature:.....

School Emis No:.....

Sub-County:.....

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

Read the following instructions carefully:

1. This paper is made up of **two** Sections: **A** and **B.**
2. Section **A,** has **20** short-answer questions **(40 marks)** and Section **B** has **12** questions **(60 marks)**
3. **All** the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** working must be done using a blue or black ball - point pen or fountain pen. Only diagrams should be done in pencil.
5. No calculators are allowed in the examination room.
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 EXAMINER'S USE ONLY		
Qn. No.	Marks	Exrs' NAME
1 - 7		
8 - 14		
15 - 20		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

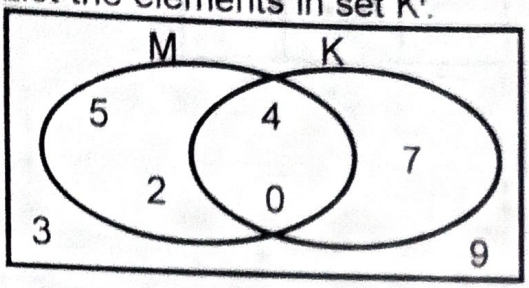
SECTION A: (40 Marks)

Answer all questions in section A. Each question carries 2 marks.

1. Multiply: 7×10

2. Write in figures; "seventeen and four tenths".

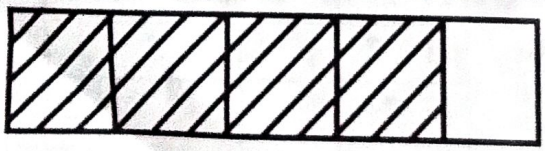
3. List the elements in set K'.



4. The cost of 3 exercise books is sh. 2100. Find the cost of 7 similar books.

5. Find the square of the missing number in the sequence below.
   1, 2, 5, 10, 17, ____

6. Use the diagram below to find the shaded percentage.



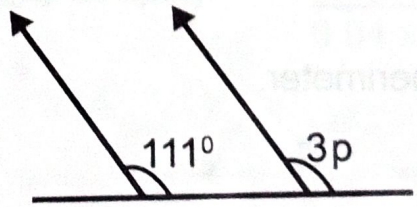
7. Using distributive property, simplify.
   $(8.3 \div 3) + (6.7 \div 3)$

8. In a basket, there are 10 pens. Four of them are red and the rest are blue. Find the probability of picking a blue pen at random.

9. What number has been expanded in decimal base?
(4 x fives) + (2 x five fives) + (3 ones)

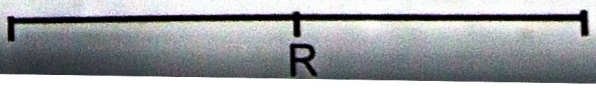
10. Take away 4 - 5t from 7 - 4t.

11. Calculate the value of p.



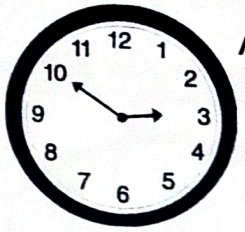
12. Find the largest number of pupils that can share 12 or 18 pens without leaving a remainder.

13. Using a pencil, a ruler and a pair of compasses only, construct an angle of 105^0 at point R.



14. Solve for n: $3 - n > 7$.

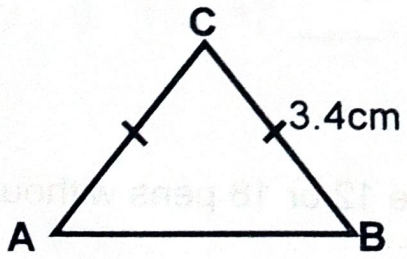
15. A lesson which lasted for $1\frac{1}{2}$ hours started at the afternoon time shown on the clock face below.



At what time did the lesson end?

16. Saul paid sh. 20,000 for a pair of shoes after being given a 20% discount. What was the original price of the pair of shoes?

17. In the figure below, AB = 4.5cm. Calculate its perimeter.



18. Set M has 31 proper subsets. Find n(M).

19. If yesterday was Thursday, what day of the week will it be after 30 days from today?

20. A packet of curry powder weighs 20gm. How many similar packets can be obtained from 2.2kg of curry powder?

SECTION B: (60 Marks)

Marks for each question are indicated in the brackets.

21. (a) Express 0.2333.....as a common fraction in lowest terms. ***(3marks)***

(b) Simplify: $\dfrac{0.18 + 0.3}{0.04 \times 0.8}$ ***(3marks)***

22. Given the digits 4, 5 and 0.

(a) Form the biggest three digit number. ***(1mark)***

(b) Write the number formed in (a) above in scientific notation. ***(1mark)***

(c) Find the sum of the smallest and biggest three digit numbers that can be formed using the above digits. *(3marks)*

23. The Headteacher deposited bank notes numbered consecutively from KT70017458 to KT70017508.

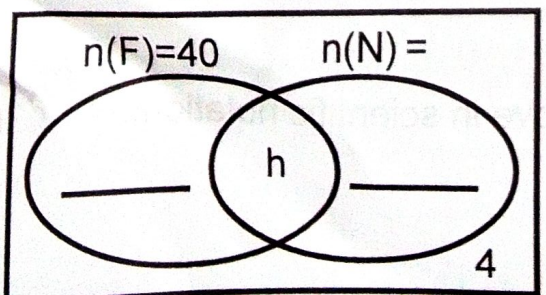
(a) How many notes were banked? *(2marks)*

(b) If each note was worth sh. 2000, how much did he bank? *(2marks)*

24. In a P.7 class, 40 pupils like football (F), 15 pupils like netball (N) only, h pupils like both games while 4 pupils like none of the two games.

(a) Use the given information to complete the Venn diagram below. *(2mark*

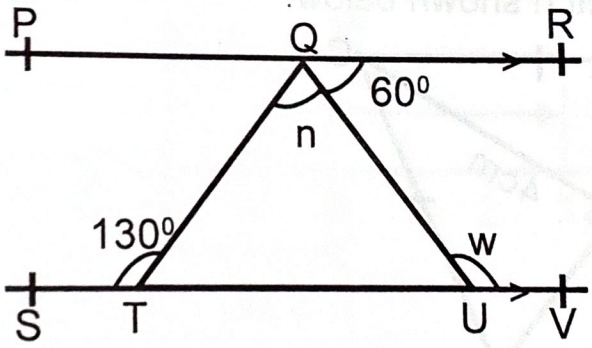
Σ =



(b) If the pupils who Do Not like Netball at all are 28 pupils, find the value of h. ***(2marks)***

(c) Calculate the total number of pupils in the class. ***(1mark)***

25. In the diagram below, line PR is parallel to line SV, Angel STQ = 130^0 and $\angle UQR = 60^0$.



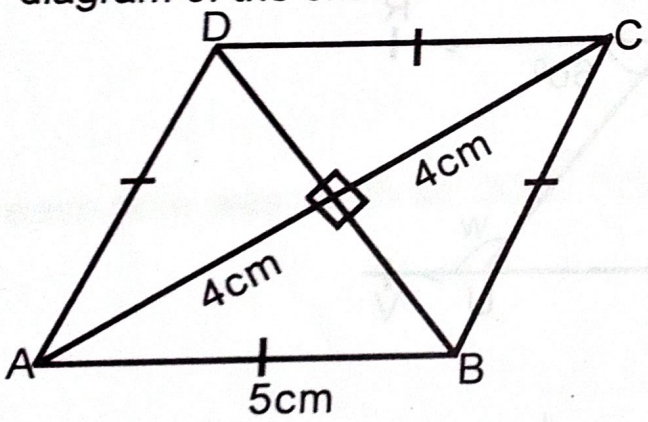
(b) Find the value of;

(i) n ***(3marks)***

(ii) w ***(2marks)***

26. A motorist covered a journey of 81km from 10:48 a.m to 12:18p.m. Calculate the speed of the motorist in metres per second. ***(5marks)***

27.(a) Using a pencil, a ruler and a pair of compasses only, construct an accurate diagram of the sketch shown below. ***(3marks)***



(b) Drop a perpendicular from point D to meet line AB at point K. ***(1mark)***

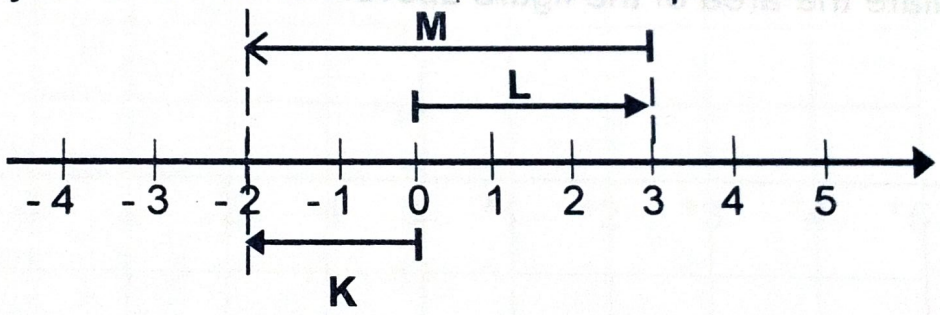
(c) Measure line DK. ***(1mark)***

28. Mary is four times as old as Kisanja. Their total age is 50years.

(a) How old is Kisanja now? ***(3marks)***

(b) How old was Mary 12 years ago? ***(2marks)***

29. Study the numberline below and answer questions that follow.



(a) What integer is represented by; ***(1mark each)***

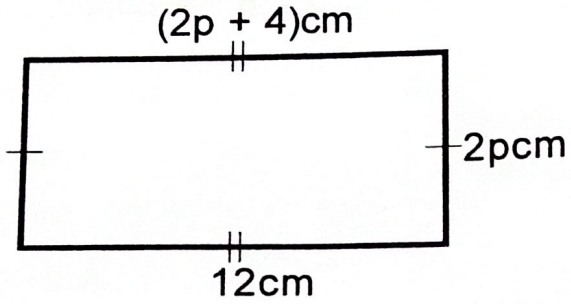
(i) K =

(ii) L =

(iii) M =

(b) Write the mathematical statement shown on the numberline. ***(2marks)***

30. Study the figure below and answer the questions that follow.



(a) Find the value of p. ***(2marks)***

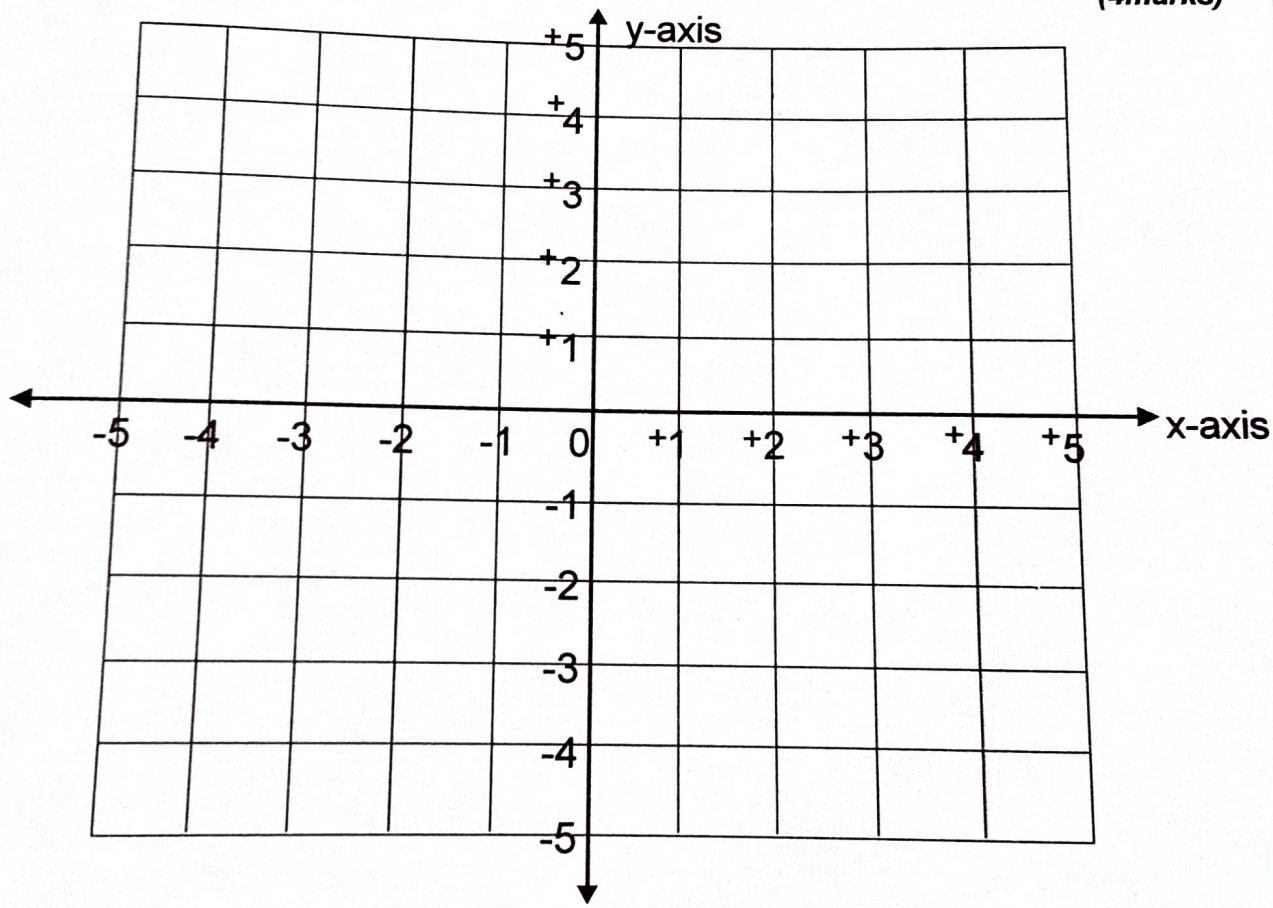
(b) Calculate the area of the figure above. ***(2marks)***

31. Baram deposited sh.120,000 in Centenary Bank which gives an interest rate of 10% per year.

(a) Find the simple interest after 2 years. ***(3marks)***

(b) Calculate the total Amount on his account after 2 years. ***(2marks)***

32. (a) On the grid given below, plot points A(0, $^{+}4$), B($^{-}2$,$^{+}2$), C(0,$^{-}2$) and D($^{+}2$,$^{+}2$). ***(4marks)***



(b) Join A to B, B to C, C to D and D to A. ***(1mark)***

(c) Find the area of the figure formed above. ***(1mark)***