NAMIREMBE DIOCESE

DEPARTMENT OF EDUCATION
COUHEIA EXAMINATIONS

PRIMARY SEVEN MOCK EXAMINATIONS 2022

MATHEMATICS

Time Allowed : 2 Hours 30 minutes

Index No.	Random No.						Personal No.		

Pupil's Name:.....

School Name:.....

Archdeaconry: .....

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B.** Section A has **20** questions and Section B has **12** questions. The paper has **12 printed** pages.
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 ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
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 easily be read may lead to **loss** of marks.
7. Do **not** fill anything in the boxes indicated: **"For Examiners' Use Only"** and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	**MARKS**	**EXR'S SIGN**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: 40 MARKS

Answer **all** *questions in this section.*

Questions ***1*** *to* ***20*** *carry two marks each*

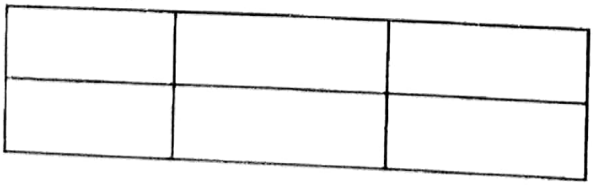
1. Workout:
$$\begin{array}{r} 3\ \ 2 \\ \times\ \ 4 \\ \hline \\ \hline \end{array}$$

2. Find the square of 0.4

3. Solve: $w + 8 = 5$ (finite 7).

4. Work out:
$$\begin{array}{r} 1\,0\,1\,1_{two} \\ +1\,1_{two} \\ \hline \\ \hline \end{array}$$

5. Shade $\frac{2}{3}$ of the figure below.

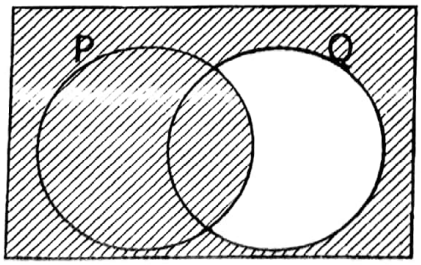


6. Simplify: $3^2 \times 3^5 \div 3^4$.

7. A dozen of books costs sh. 14,400. Find the cost of 9 similar books.

8. Given that m = 9 , n = 7 and p = -4, find the value of; $n(p^2 + 2m)$

9. Describe the shaded region in the venn diagram below.



10. Using divisibility test or 3, state whether 378 is divisible by 3.

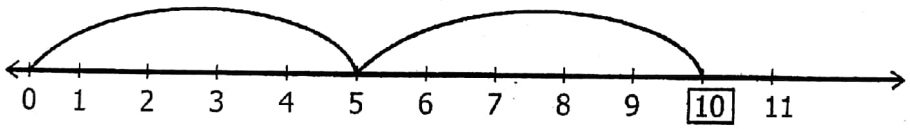
11. Moses sold a belt at sh. 29,000 and made a profit of sh. 7000. Calculate the cost price of the belt.

12. Using a ruler and a pair of compass, construct an angle of 105^0 in the space provided below.

13. What number has been expanded to give:
$(6 \times 10^3) + (5 \times 10^1) + (3 \times 10^{-1})$?

14. Simplify: $3(p - 1) - 2(4 + p)$.

15. Write a mathematical statement represented on the numberline below.



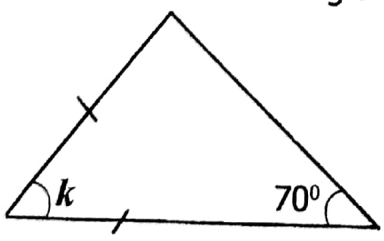
16. Convert 750 grammes to kilograms.

17. A staff meeting that ended at 4:20pm started at 11:25am. How long was the meeting?

18. The probability of chosing at random a member who owns a car in a family of **24** members is $\frac{3}{8}$. Find the number of people who do not own cars in the family.

19. The circumference of the base of a cylindrical tin is **88cm**. If its height is **70cm**, calculate its volume.

20. Find the size o the angle marked k in the figure below.



SECTION B: 60 MARKS

*Answer **all** the questions in this section.*
Marks for each question are indicated in brackets.

21. Given the numeral 6 0 8 4:

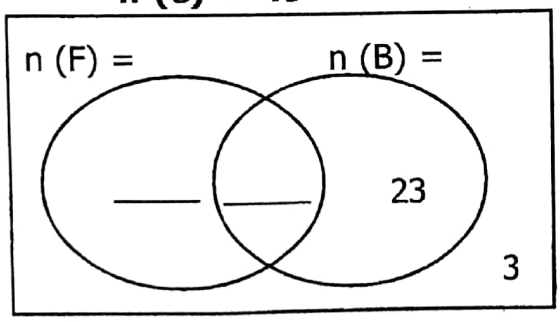
(a) Round off the numeral to the nearest hundreds.

(b) Find the product of the value of 8 and place value of 0 .

22. In a group of **49** people, **34** eat beef (B), **3*d*** eat fish (F) only, some people eat both dishes while **3** people eat other dishes.

(a) Represent the above information on the venn diagram below.

n ($\mathcal{E}$) = 49



(b) Find the value of ***d***?

(c) Find the probability of picking at random a person who eats one dish.

23. The mean of $2p + 5$, $p + 4$, $3p + 1$ and 12 is 19.

(a) Find the value of p.

(b) Work out their median.

24. The diagonals of a rhombus are 12cm and 16cm respectively.

(a) Calculate its area.

(b) Workout its perimeter.

25. (a) Express 20m/s to km/h.

(b) A motorist covered a journey at a speed of 54km/hr in $4\frac{1}{2}$ hrs. How long will the motorist take to cover the same distance at a speed of 81km/hr ?

26. The table below shows the rates at which different currencies are bought and sold in a Commercial bank.

Currency	Buying Price	Selling Price
1 Us dollar	UGX 3800	UGX 3850
1 Kenya Shilling	UGX 37	UGX 38

(a) Bima has UGX 616,000, how many US dollars will she get from the bank?

(b) The cost of a radio is 50 US dollars, find the cost of the same radio in Kenya Shillings.

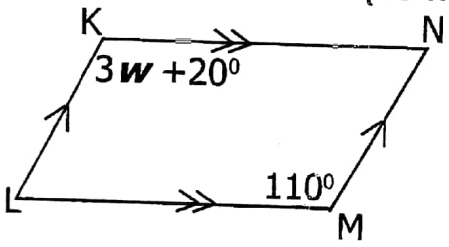
27. By selling a dress at sh. 72,000, a trader made a loss of 20%.

(a) Calculate the cost price of the dress.

(b) How much money did the trader lose?

28. Study the figure below and use it to answer the questions that follow.

(a) Find the value of w? *(03 marks)*



(b) Work out the size of angle KLM.

29. Joel is 30 years younger than Ben. In 12 years, Ben will be thrice as old as Joel.

(a) How old is Joel?

(b) Find Ben's age in 12 year's time.

30. Town **A** is 42km from town **B** on a bearing of **230°** and town **C** is 30km from town A on a bearing of **300°**.

(a) Draw a sketch showing the location of the three towns.

(b) Using a scale of 1cm to represent 6km, draw an accurate figure showing the three towns.

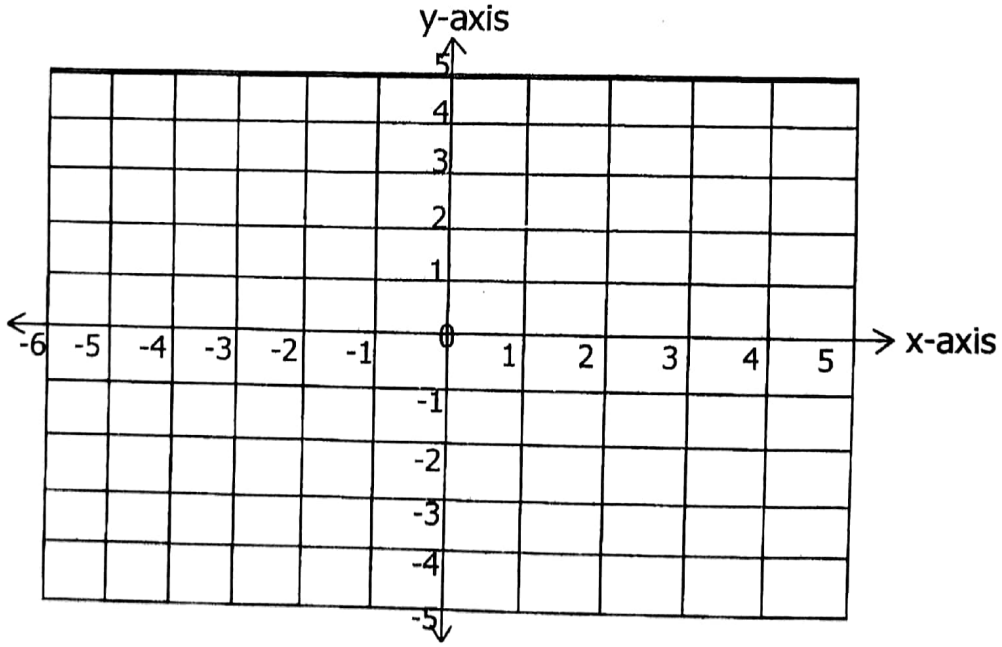
31. In a village, $\frac{1}{3}$ of the farmers grow cassava, $\frac{1}{4}$ grow maize and $\frac{2}{5}$ of the remainder grow millet while 50 farmers grow cotton.

(a) What fraction of the farmers grows cotton?

(b) Find the number of farmers in the village.

32. (a) On the coordinate graph below, plot the following points:

P(-1,2) , Q(-3, -1) , R(3, -1) , S(1, 2)



(b) Join the points P to Q, Q to R, R to S, and S to P.

(c) Name the figure formed.

END