IBANDA DISTRICT EXAMINATIONS COMMITTEE

PRIMARY LEAVING MOCK EXAMINATION 2023

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Random Number					Index No.							

Candidate's Name:.....

School Name :.....

Sub-county:.....

Candidate's Signature.....

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B.**
2. Section **A** has 20 short answer questions (40 marks)
3. Section **B** has 12 questions (60 marks).
4. Attempt **ALL** questions. All questions for 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 but not in pencil
6. Unnecessary crossing of answers 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 Examiner's use only

FOR EXAMINERS' USE ONLY				
QN.NO	EXRS MK	INITIALS	T/L MK	OFFICE
TOTAL				

SECTION A (40 MARKS)

1. Workout:

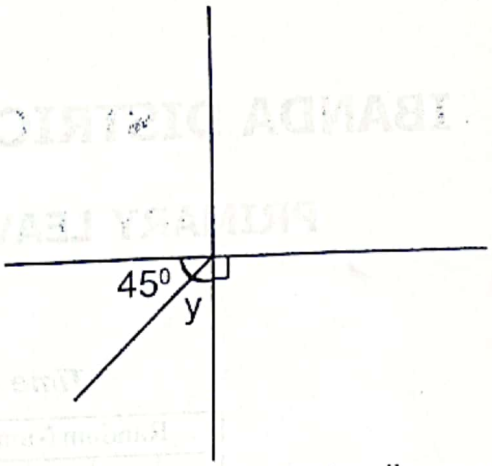
$$\begin{array}{r} 240 \\ +\ 29 \\ \hline \\ \hline \end{array}$$

2. Write in figures: Two hundred twenty two thousand two hundred twenty two.

3. Find the supplement of the angle 137^0.

4. Simplify: 3xy – bc- xy + 4bc.

5. Expand: 20709 Using exponents.



6. Find the value of y in the diagram above.

7. Abia bought a skirt at shs 66,000 she later sold it and made a profit of 15000. At what price did she sell the skirt?

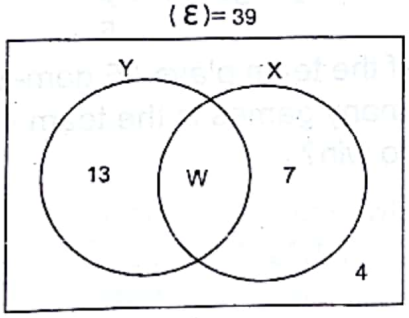
8. The mass of a packet of tea leaves is 1/8 kg.
What is this mass in grams?

9. Work out: $110_{two} \times 11_{two}$.

10. Work out : $\frac{1}{4} \div \frac{3}{4}$

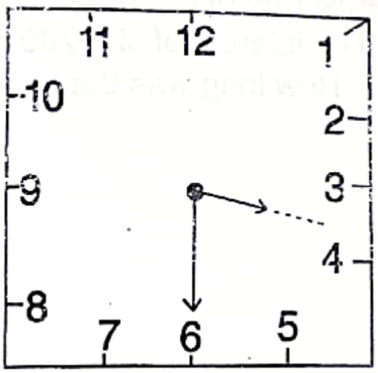
11. Find the next number in the sequence.
125, 64, 27, 8,_____ .

12.



Find the value of W in the venn diagram above.

13. What evening time is shown on the clock face below?



14. Using a pencil, a ruler, and a pair of compasses, Construct an angle of 75^0.

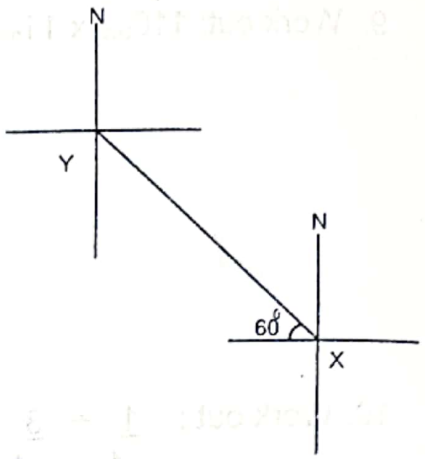
15. Given that M=$\frac{1}{3}$ an n=$\frac{1}{9}$.
Find the value of $\frac{m}{n}$

16. Immaculate got a loan of sh 120, 000 from a bank at a simple interest rate of 8% per annum. She paid an interest of sh 7200 on the loan. How long was the loan?

17. The average height of 4 boys. Jim, Jimdin, James and Jamson is 120cm. Jim is 100cm tall and Jimdin is 130 cm tall. Find the height of James if Jimdin is as tall as Jamson.

18. The LCM of two numbers is 36 and their GCF is 3. If one of the numbers is 12. Find the second numbers.

19.



Find the bearing of Y from x in the diagram above.

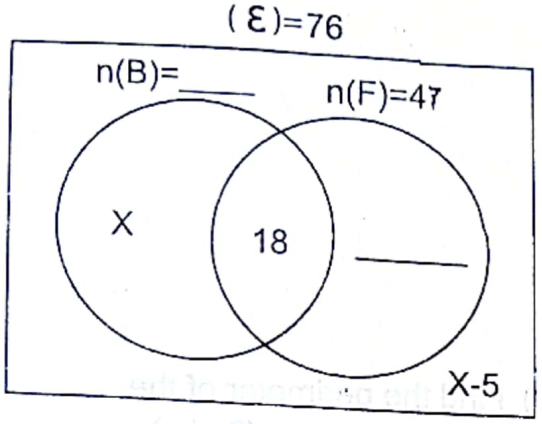
20. The probability of a net ball team winning a game is $\frac{3}{5}$

If the team plays 15 games, how many games is the team expected to win?

SECTION B (60 MARKS)

21. A farewell party attended by 76 guests 45 were served with fish (F) and 18 were served with both fish and Beef (B). x guests were served with Beef only while (x-5) were not served with any of the two dishes

(a) Use the information above to complete the venn diagram below. (1mrk)



(b) Find the value of x. (2mks)

(c) Find the number of guests who were served with Beef (B). (2mks)

22. Work out $\frac{3\frac{9}{10} + 3\frac{6}{10}}{\frac{6}{100} \times \frac{5}{10}}$ (2mks)

b) Simplify: $3\frac{1}{3} \div 2\frac{1}{2} \times 2\frac{2}{5}$ (2mks)

23. a) Using a ruler, a pencil and a pair of compasses only.

(i) Construct a parallelogram WXYZ such that line WX =7cm, XY=5cm and angle WXY= 120^0 (3mks)

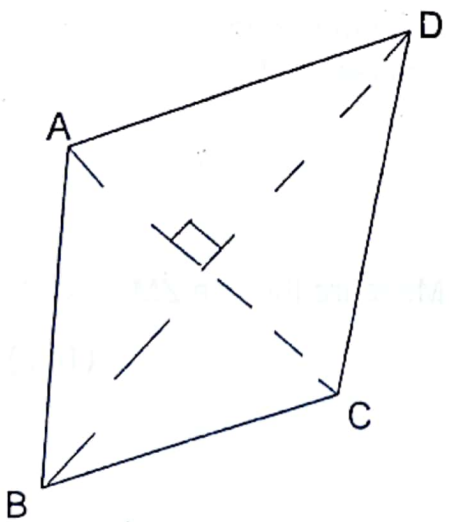
(ii) Drop a perpendicular from Z to meet WX at M. (1mk)

b) Measure the line ZM___CM (1mk)

24. a) The mean of the numbers 7, 9, 5, y+2 and 6 is 8. Find the value of y. (2mks)

b) In a box there are 20 mangoes, out of these 5 are green and the rest are yellow. What is the probability that a mongo picked at random from the box is yellow? (2mks)

25. The diagram below shows a rhombus ABCD. The diagonals BD=24cm and AC=10cm.



a) Calculate the area of the rhombus (2mks)

b) Find the perimeter of the rhombus (2mks)

26. Imelda has two children, Victoria and Fortunate. If Victor is half her age and Fortunate is a third her age and the total age of the two children is 30 years.

a) Find Imelda's age (4mks)

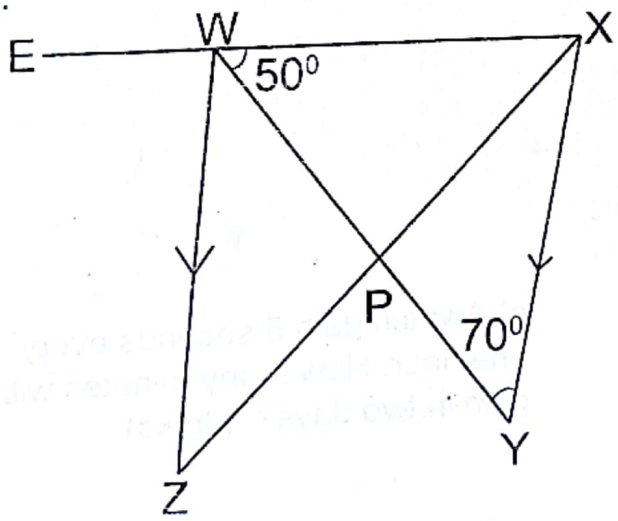
b) How old is Fortunate? (2mks)

27. Matakuri wants to fence her circular garden of diameter 7m using poles placed at intervals of 40cm.

a) How many poles are needed to fence her garden?
(Use $\pi \frac{22}{7}$)

b) If each pole costs sh 6000, how much money will Matakuri spend on the poles? (2mks)

28.



In the diagram above EWX is a straight line. Line ZX bisects angle WXY. Line XY is parallel to line ZW. Angle XWP=50^0 and angle XYP = 70^0.

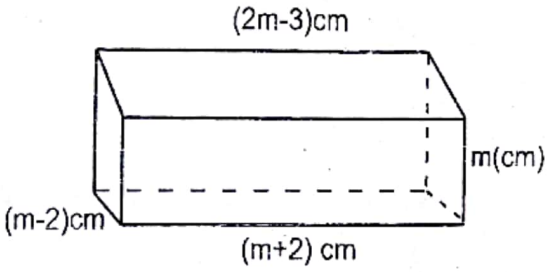
i) WPZ (2mks)

ii) EWZ (2mks)

29. A trader has various amount of money in the following currencies.
200 united states dollars (US$)
100 Kenya shillings (K.shs)
500,000 Uganda shillings (Ug. Shs)
Given that the existing exchange rates are:
US$1 = Ug.shs. 1850
K.shs.1 = Ug.shs 25
a) Find the total amount of money in Uganda shillings the trader has. (4mks)

b) If a watch costs Kshs 1480, find how many US dollars the trader would pay for the watch. (2mks)

30. The figure below is a cuboid. Use it to answer the questions that follow:



a) Find the value of m. (2mks)

b) Find the volume of the cuboid. (2mks)

31. Simplify: $\frac{0.4 \times 0.2}{0.16}$ (3mks)

b) Solve: $y + \frac{1}{4} y = 5$ (2mks)

32. a) Express 5m/second in km/hr.(2mks)

b) Awatch gain 5 seconds every one hour. How many minutes will it gain in two days? (3mks)