THE DREAM EDUCATION CONCERN

PRE-PLE SET IV - 2024

MATHEMATICS

Time allowed 2hours & 30minutes

Candidates 'Name: ....

School: ....

Candidates' Signature: ....

INDEX NO	Random Number						Personal No.		

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 questions (40 marks).

3. Section B has 12 questions (60 marks).

4. Answer ALL questions in both sections A and B.

5. All answers MUST be written in the space provided in blue or black ball point pens or ink.
6. All diagrams Should be in pencil.
7. Unnecessary crossing of answers will lead to loss of Marks.

8. Poor hand writing which cannot be easily read, may lead to loss of marks.

SECTION A (40 MARKS)

1	Work out the sum of 390 and 72	2	Simplify m + 2m + 3m
3	Divide 3816648 by 132	4	Find the complement of the angle of 25°
5	Work out $3\frac{5}{6} - 1\frac{4}{5}$	6	Find the next number in the sequence 125, 64, 27, 8, _____
7	If 20% of a number is 40, what is the number?	8	Moses bought 4 packets of sugar and each packet was weighing 750grams. find the weight of sugar Moses bought.
9	Add using 6 + 7= _____ (finite 9)	10	Calculate the interior angle sum of a regular polygon with 7 sides.

| 11	Given that 1 US dollar ($) costs Ugandan shillings 3672 and 1 Kenyan shilling costs 36. Find the cost of US dollar in Kenyan shillings.	12	Show all the lines of folding symmetry in the figure below.
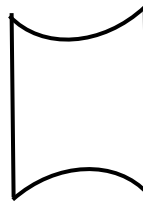
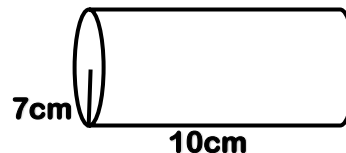| 13	The pie chart below shows how Muyama uses her farm land. use it to answer the questions that follows.
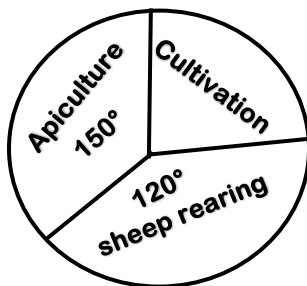
Calculate the size of Mayama's land if she uses 72 acres for sheep rearing
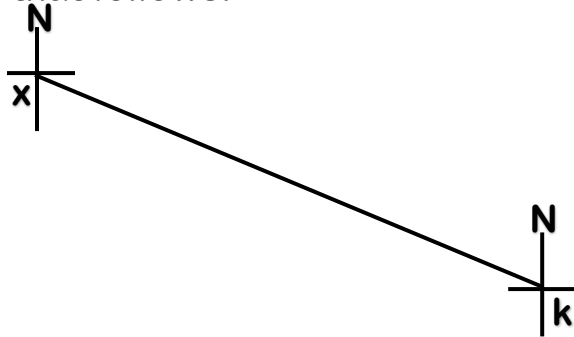
14	Find the value of M in degrees in the diagram below
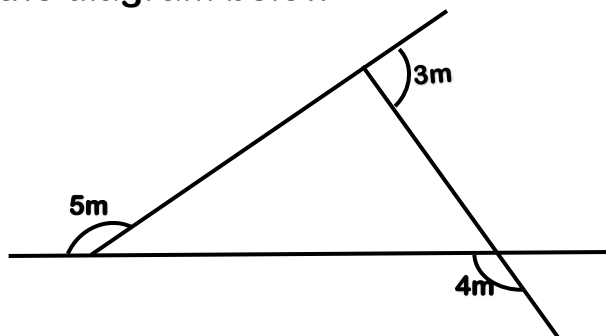
15	Find the percentage profit on a phone bought at sh. 10,000 and sold at sh. 12000.	16	Find the volume of the cylinder below

7cm
10cm

| 17	The diagram below shows the position of two towns X and K, use it to answer the questions that follows.	18	A garden can be dug by 3 men in 20 days. How many men working at the same rate can dig the same garden in 12 days?
	N x N k **Work out the bearing from town X to town K**		
19	**Solve and write the solution set of X 4x > 20**	20	**Study the figure below and answer the questions below.** 7cm **Find the area of the shades part.**
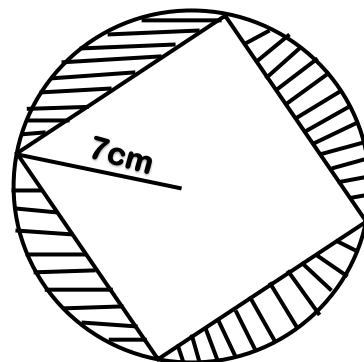
SECTION B (60 MARKS)

21 In a figure below line VZ is parallel to CM. angle CNY = 44° and angle NQR = 56°. Study it carefully and answer the questions that follows.
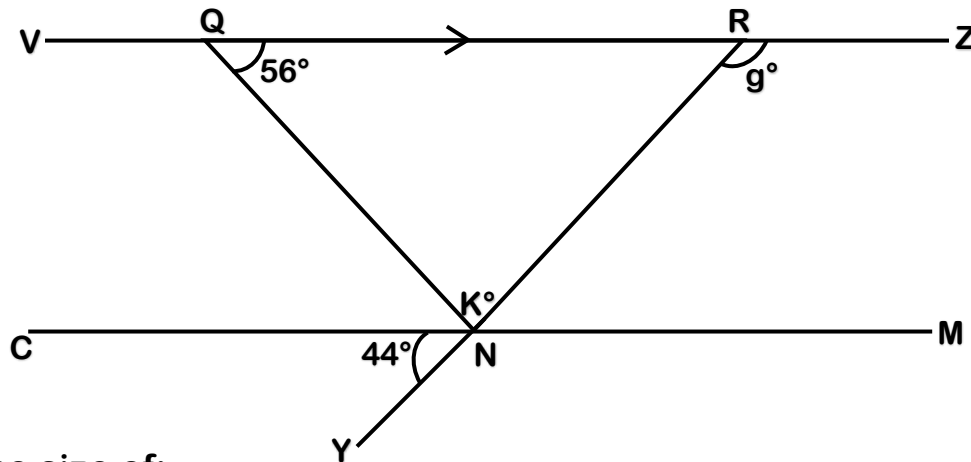
(a) Find the size of;
(i) Angle K

(b) Angle size of g.

22 In a primary four class of 50 pupils, 27 like mathematics (M) 22 like science (S), x pupils like both mathematics and science and 3 pupils do not like any of the two subjects.
(a) Represent the above information in a Venn diagram.

(b) Find the value of x.

(c) Find the number of pupils who like only one subject.

23 | Nampima went to the market with sh. 30,000. she bought the items as shown in the table below. if after paying for all the items, she remained with sh.9250. Complete the table by showing your working aside.

ITEMS	UNIT COST	TOTAL COST
2kg of salt	Sh. 4000 per kg	_____
3 loaves of bread	Sh. _____ per loaf	_____
_____litres of milk	Sh. 1500 per litre	Sh. 2550
TOTAL EXPENDITURE		_____

24 | The number of goats, cows and sheep in Namukose's farm are in a ratio of 4 : 3 : 5 respectively. There are 40 more sheep than goats. Calculate the number of each type of animal on the farm.

25	Babirye deposited sh. 750,000in centenary bank which offers a simple interest rate of 18% per year, after some time, Babirye had risen to sh. 885,000in her bank account.
	(a) Find the interest Babirye earned.
	(b) Calculate the length of the period Babirye's money was in centenary bank.

26	The table below was taken from Kirinya junior school showing marks obtained by some pupils in primary four in a mathematics midterm exam. Study it carefully and answers questions that follows

MARKS	70	Y	60	40
NUMBER OF PUPILS	3	6	3	2

If the mean mark of the pupils was 55, Find the value of Y

27	Study the graph below and answer the questions that follow.

(a) Plot the points
A(-4, 3) B(0,3) C(2, -3) D(-4, -1)
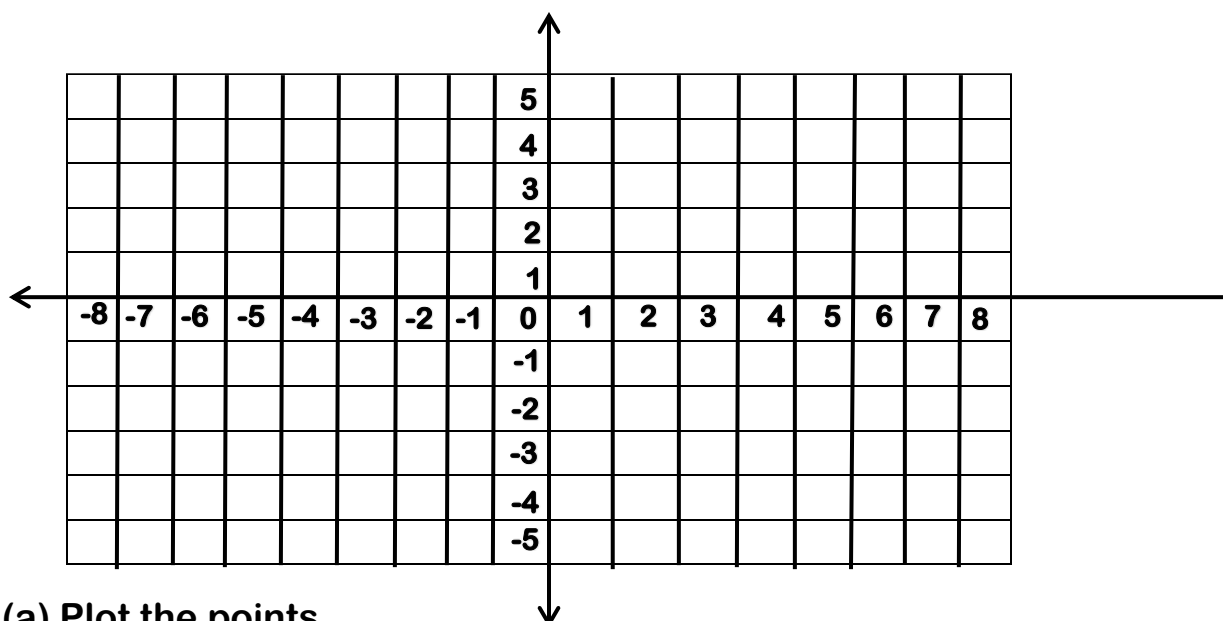
	(b) Join point A to B, B to C, C to D, D to A. (c) Name the figure formed. (d) Find the area of the quadrilateral in C above.
28	Using a pair of compasses, a ruler and a pencil only, construct a triangle XYZ in which YZ = 6cm, angle XYZ =30° and angle YZX = 120° Measure XY
29	Humphrey bought a primary six Dream text book at sh. 1500. The original price was sh. 2000. Work out the percentage discount. (b) If Humphrey was allowed the same percentage of discount, on a primary seven question bank from the Dream publishers which was priced at sh. 5,000. How much did he pay for it?

30	Divine nursery and primary school has a population of 1080 students. Of these $\frac{3}{5}$ are girls and ¼ of the boys are in upper primary classes. (a) Find the number of boys in the upper primary classes. (b) Express the number of boys as in lower primary as a percentage of the whole school.
31	Dream school bus left Mukono at 11:30am moving at a speed of 60km/hr reached Kayunga town at 1:30pm. The bus stayed in Kayunga town for 40minutes It then continued to Kasawo and covered a distance of 96km at a speed of 64km/hr. (a)Calculate the total distance covered by Dream school bus from Mukono to Kasawo. (b) At what time did the Dream school bus reach Kasawo town?

32	Simplify $\dfrac{0.24 \times 0.3}{0.8}$
	(b) A carpenter bought 3 pieces of timber and measuring 1.97m, Find the total length of the timber he bought.