BRAIN TRUST SCHOOL - NANSANA
MID TERM III EXAMINATIONS - 2023
PRIMARY SIX Mathematics.
Time Allowed: 2½hrs

Learning Together

Name: ………………….…………………………………………...

Read the following instructions carefully.

1. Do not open the booklet until you are told to do so.

2. This paper has got **two** sections: **A** and **B.**

3. Section **A** has **20** questions **(40marks)** and Section **B** has **12** questions **(60mks)**

4. Answer **ALL** questions. All answers to 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.** Diagrams should be drawn in pencil.

6. **Un necessary** alteration of work may lead to loss of marks.

7. Any handwriting that cannot be easily read may lead to loss of marks.

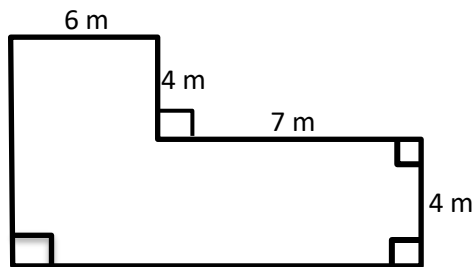**FOR EXAMINER'S USE ONLY**

SECTION A		Total (%)
SECTION B		

SECTION A

1.	Workout : 1 3
	    + 4 3
	  _____
	
	  _____
		2.	Find the next number in the sequence.
			
			0, 3, 5, 8, 10 _____

3.	Express $\frac{3}{5}$ as a decimal	4.	Write in figures "Eighty thousand ten"
5.	The following height of 6 children were recorded at the health centre 53 cm,64cm, 59 cm,51cm,63cm and 61 cm. Find the median height of the children.	6.	In the venn diagram below. Shade the area $(A \cap B)'$

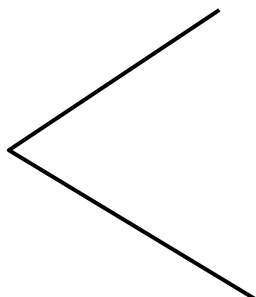|			
7.	Express 36 km/h in metres per second.	8.	Solve $2p - 8 = 16$
9.	Paul has a garden of the shape below. Find the distance around his garden. 6 m 4 m 7 m 4 m	10.	Gita buys a bicycle at shs.95,000 then he sells it to Mbabazi at shs.109,000.Find his profit.
11	Using a pair of compasses, a pencil and a ruler only, bisect the angle given below.	12	Simplify $^-8 - {}^-3$

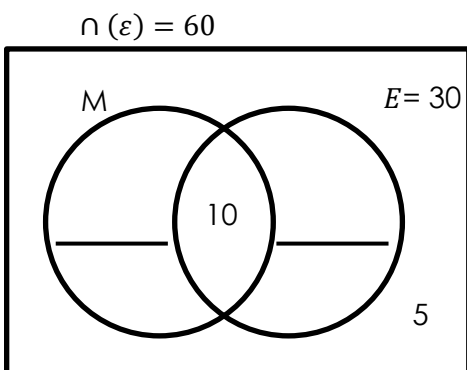|			
13.	Workout : $\begin{array}{r} 1 \quad 0_{two} \\ + 1 \quad 1_{two} \\ \hline \\ \hline \end{array}$	14	Mapeera bought 4 exercise books at shs.2000, find the cost of 8 similar books.
15	The radius of a circle is 7cm.Find its circumference.	16	Find the square root of $5\frac{1}{9}$
17	A box contains 20 pens,10 are blue,7 are black. A pen is picked at random from the box,find the probability that it is a black pen.	18	Find the complement of 60°

19	Change 25 kilogrammes to grammes.	20	A mathematics test was given a class of 50 pupils and 45 of them passed the test while the rest failed. Find the percentage of the pupils who failed the test.

SECTION B

21a Write 49 in Roman numerals. (2 marks)

b) Find the difference between the place value of 9 and place value of 7 in the number 9473. (2 marks)

22	In a class of 60 pupils,30 like English(E),y like Mathematics(M)only,10 like both subjects,5 do not like any of the two subjects.
a)	Use the information given above to complete the venn diagram below. (2marks)

$\cap (\varepsilon) = 60$

b)	Find the value of y (2 marks)

c)	Find the number of pupils who like Mathematics altogether.(1 mark)

23	The table below shows the buying and selling prices (exchange rates)of difference currencies in Uganda for a certain period at Crane Forex Bureau.

Currency	Buying	Selling
1 pound sterling(£)	Ugshs.2500	Ugshs.2550
1 US dollar(US$)	Ugshs.1700	Ugshs.1720
1 kenya shillings (Ksh)	Ugshs.19	Ugshs.20

a)	A tourist arrived in Uganda with £ 7,600. Find how much money she had in Uganda shillings.(2 marks)

b)	Tr.Geoffrey is to travel to Kenya with Ugshs.126,000.Find the amount in Kenya shillings that he will travel with.(3 mrks)
24	a) Subtract ½ - ¼ (2 marks)
	b) In a class of 60 pupils,12 are girls, the rest are boys. i) How many boys are there in the class. (1 mark)
ii)	Express the number of girls as a percentage of the whole class.(2mrks)
25	a) Simplify 3p+3k+2p+2k (2 marks)

b) Given that n = 3, r =2, evaluate $\frac{2n+r}{r}$ (2 marks)

c) Annet is 20 years younger than Peter. If Peter is 48 years old, how old is Annet? (1 mark)

26 A taxi driver left town A for town B at 7:30am driving at a speed of 80km/h.The driver reached town B at 11:00am.

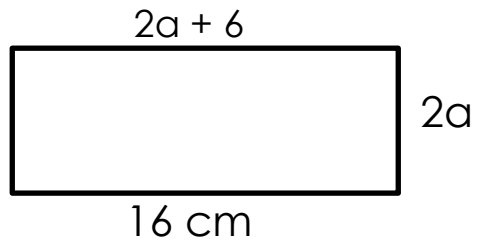**a)** Calculate the time taken by the driver to reach town B.(2 marks)

b) Find the distance between town A and town B (2 marks)

c) Express the ending time into 24 hour clock.(1 mark)

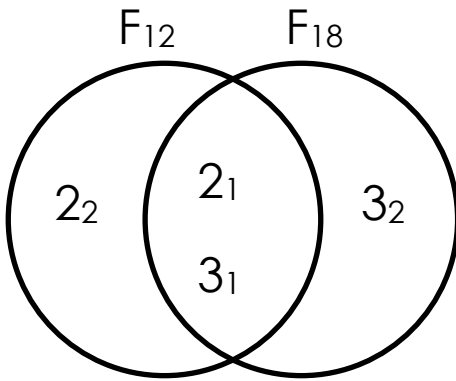| 27	Using a pair of compasses, a ruler and a pencil only, construct a triangle ABC in which line AB =7cm, AC=6cm and angle CAB = 45^0 (4 marks)
b)	Measure angle ACB (1 mark)

28	Study the figure below and answer questions that follow.

2a + 6

2a

16 cm

i)   Find the value of a   (2marks)

ii)   Find the width of the rectangle.(1mark)

iii)   Find the area of the rectangle (2marks)

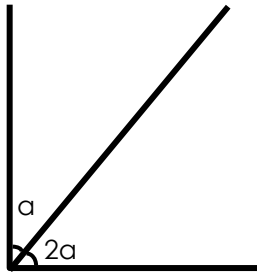| 29	The venn diagram below shows prime factors of 12 and 18.

F_{12} F_{18}

2_2 2_1 3_2

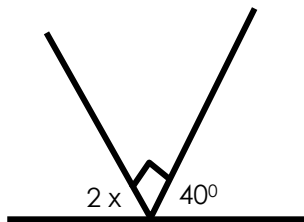3_1

a) Find the highest common factor of 12 and 18 (2 marks)

b) Find the smallest number that can be divided by 8 and 12 and leaves 5 as the remainder. (3 marks)
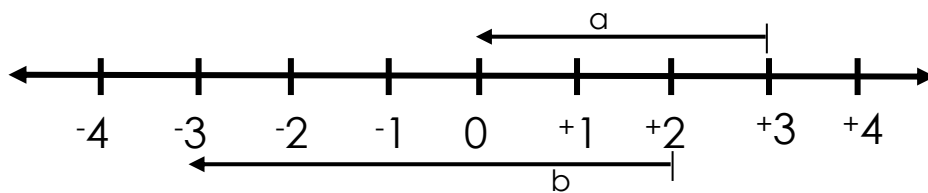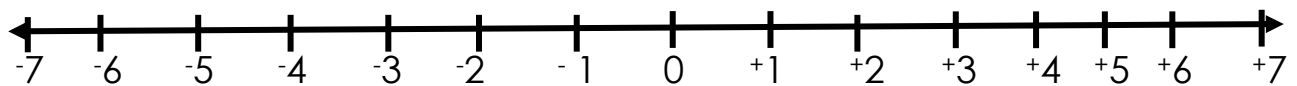
30	Find the value of the unknowns.

a)

b)

31	Write the integers represented by letters a and b on the number line below.(1mark each)

i) a = _____

ii) b = _____

b	Represent the number operation $^-5 + {}^+7$ on the number line below. (2 marks)

32	A piece of land is used as follows.
	5 hectares for growing coffee.
	10 hectares for growing cassava.
	20 hectares for growing matooke.
	25 hectares for keeping animals
	Represent the above information on a pie chart (Use radius of 5cm)
	(6 marks)

END