GOLDENBELLS PRIMARY SCHOOL

PRE PLE EVALUATION SET 2022

MATHEMATICS

Time allowed: ***2 hours 30 minutes***

Index No.	Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

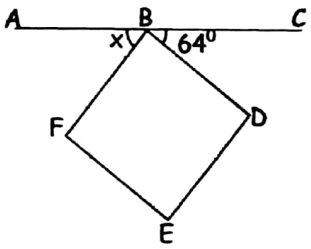
Read the following instructions carefully:

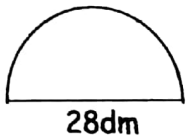
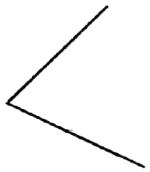
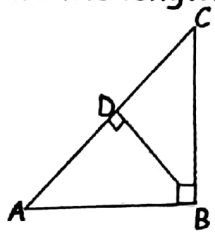
FOR EXAMINER'S USE ONLY		
SEC: A	**SEC B**	**TOTAL**

1. The paper has **two** sections: **A** and **B**
   Section **A** has 20 short questions (40 marks)
   Section **B** has 12 questions (60 marks)
   The paper has **8 printed pages** altogether.
2. Answer **ALL** questions. All working to both Sections A and B must be written in the spaces provided.
3. All answers must be written using **only** a blue ball point pen. Only diagrams should be drawn in pencil. Any work done in pencil other than graphs and diagrams will **not** be marked.
4. Unnecessary **changes** in your work may lead to **loss** of marks.
5. Any handwriting that **cannot** be easily read may lead to **loss** of marks.
6. Write your previous and target mark after you have finished answering all the questions.
7. Do **not** fill anything in the boxes indicated **for "Examiner's use only."**

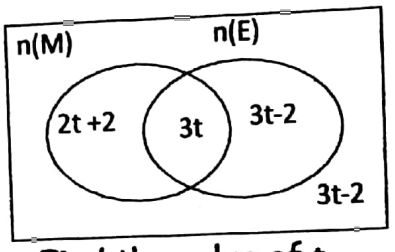
Turn over

SECTION A (40 Marks)

1.	Multiply: 15×3	2.	Subtract y-4 from 2y-7
3.	Find the square root of 0.64	4.	Round off 12.649 to the nearest whole number.
5.	In the figure below, AC is a straight line and BDEF is a square. Find the value of x. 		
6.	If 60 trees were planted 40 meters apart along a straight road, what distance did it cover?		
7.	Expand 83.07 using powers of ten.	8	Factorise completely: 4an - 2a
9.	Find the sum of the next two numbers in the sequence 5,6,10,19,35,60,.....,.....	10	Express 0.075 in Scientific notation

11.	The ratio of two numbers is 4:5 respectively and their ~~GCF~~ LCM is 200. Find their GCF.	12.	Solve: $2^{3n} \div 2^{n} = 16$
13	Find the perimeter of the figure below.  	14	Find the sum of the 3rd and the 5th composite numbers.
15	A regular polygon has 12 right angles. How many sides has the polygon?	16	Bisect the reflex angle. 
17	Given that a=4 and b= -2, Find the value of $a^2 - b^2$	18	Solve the inequality: $3(x+4) < 5x-2$
19	In the triangle, AB=6cm, BC=4cm and AC=8cm. Study it carefully and find the length of BD.  	20	How many 50ml spoons can fill a $1\frac{1}{2}$ litre bottle?

21 The Venn diagram below shows the number of pupils who like Mathematics(M) and English(E) at Nankya Highway Primary school Mayuge. Those who like Mathematics are equal to those who don't like it. Use the Venn diagram to answer the questions that follow.



(a) Find the value of t. (02mks)

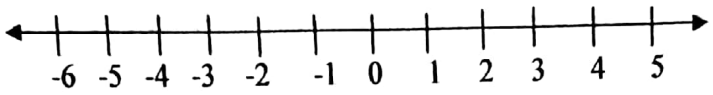
(b) Find the percentage of pupils who like both Mathematics and English. (03mks)

22 Square tiles of sides 30cm each were fixed on a floor measuring 9m by 6m.

(a) How many tiles were fixed on the floor? (03mks)

(b) If a box containing 50 tiles costs sh.250,000, How much was spent on tiles? (02mks)

23 (a) Use the number line below to work out: $^{+}3-^{-}5$ (03mks)



(b) The temperature of water ice was $^{-}20^{0}C$. What was the rise in temperature. (02mks)

When the water was heated, the temperature rose to $-5^{0}C$

24 Given the digits 2,0 and 8.

(a) Form the smallest 3-digit number using the above digits. (01mks)

(b) Write the numeral formed in (a) above in Scientific notation. (02mks)

(c) Show the above numeral on the abacus. (02mks)

25 Using a long ruler, a sharp pencil and a pair of compasses, Construct triangle RPC where angle RPC $=120^{0}$ lines RP and PC are 4cm and 5cm respectively. (04mks)

(a) Measure angle PCR (01mks)

26	A mother is 48 years older than her son. In four years time, the mother will be twice as old as her son. (a) How old is the son now? (03mks) (b) Calculate their total age 8 years ago. (02mks)
27	The sum of three consecutive odd numbers is 57. If the largest number is k, (a) Find all the numbers. (04mks) (b) Calculate the square of the smallest number (02mks)
28	Alice left Mbale at 7:00am driving at a speed of 60km/hr a distance of 180km to Mukono and she returned directly to Mbale at a speed of 90km/hr. (a) At what time did she reach Mbale? (04mks)

(b) Calculate the average speed for the whole journey. (02mks)

29 The table below shows the marks scored by some pupils last term. The average mark was 75.

Marks	62	75	80	92	100
Number of pupils	4	4	y	1	1

(a) Calculate the value of y. (03mks)

(b) How many pupils scored above the average. (02mks)

30 In a class, ⅓ of the candidates ate Matooke, $\frac{1}{2}$ ate posh, $\frac{1}{2}$ of the remainder ate cassava and 6 candidates ate rice. Find the number of candidates in the class. (05mks)

31 Use Peter's meter readings below to answer the questions that follow.

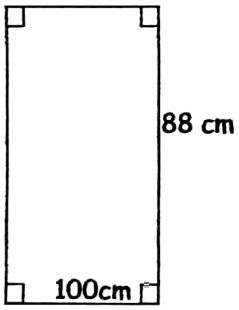
Previous reading: 088694

Current reading: 088823

(a) How many units of water did Peter use last month? (02mks)

(b) If the service fee is sh.3,000 per month and a unit costs sh.500, work out Peter's total water bill. (02mks)

32 The figure below is a rectangular sheet of metal which is to be folded to form a hollow cylindrical tank.



(a) Work out the radius of the cylindrical tank formed. (02mks)

(b) Calculate the capacity of the tank formed in liters. (03mks)