ERIA JUNIOR SCHOOL NGOMANENE GOMBA

P.7 TERM ONE EXAMINATION 2023

SET TWO

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Index No.

Random No.						rsonal No.		

Candidate's Name: ……

Candidate's Signature: ……

School Random No. ……

District ID:……

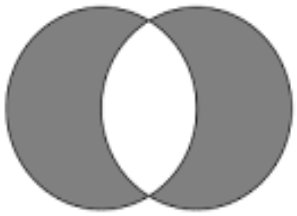
Read the following instructions carefully:

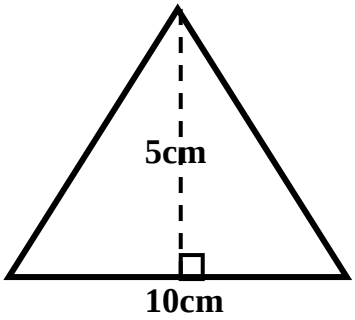
1. This paper has two sections: **A** and **B.** Section A has 20 questions and **section B** has 12 questions. The paper has 10 printed pages.
2. Answer all questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
3. All working must be done using a blue or 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 in your work and handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the table indicated: "For Examiners' use only" and boxes 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		

Turn over

SECTION A

1.	Multiply: 1 2 x 4	2.	**Write in figures:** Forty three thousand, two hundred fifty.
3.	Simplify: 3p + 2q + p	4.	Divide 0.24 ÷ 0.6
5.	Find the next two numbers in the sequence: 1, 3, 6, 10, ____, ____	6.	**Describe the unshaded region in the diagram below.** **A** **B** 
7.	Simplify: $^{+}4 - {}^{-}3$	8.	2y and 3y are supplementary angles. Find the value of y.

9.	Joan got 20 marks out of 25 marks. Express her score as a percentage.	10.	The diagram is triangle ABC. Calculate its area 
11.	Express 36 in Roman numerals.	12.	Increase sh. 20,000 in the ratio 5:4
13.	Using a ruler and a pair of compasses only, construct an angle of 60^0 in the space below.	14.	The mean age of five boys is 12 years. Calculate their total age.

15.	Kabanda bought 35 litres of milk. How many millilitres of milk did she buy.	16.	One racing car takes 50 minutes to finish a race. How long will ten racing cars take to finish the same race if they run at the same speed?
17.	Express 24_{ten} to base five	18.	A casual labourer earns sh. 10,000 a day. How much money does he earn in a month of 30 days?
19.	Use the distributive property to work out (189 x 15) – (15 x 89)	20.	Work out $5^2 + 15^0$

SECTION B

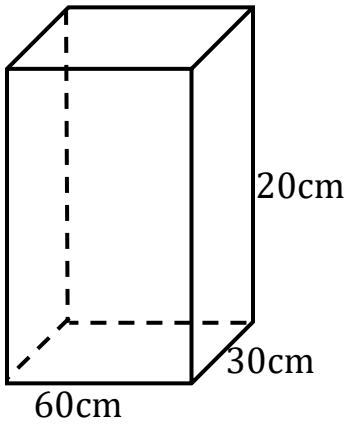
21. (a) What number has been expanded to give:

$(5x10^3) + (7x10^2) + (2x10^0)$? (2marks)

(b) Find the sum of the value of 5 and the value of 8 in the numeral 8059.

(3mks)

22. **The diagram below is of a rectangular water tank measuring 60cm by 30 cm by 20cm.**

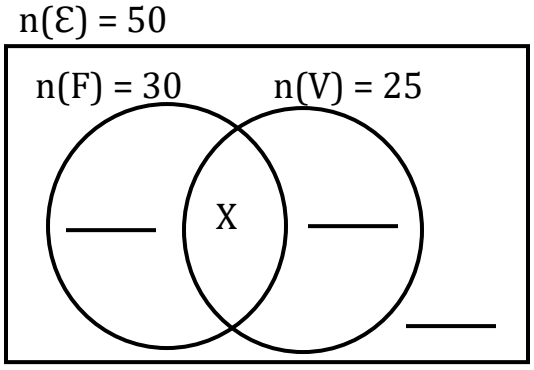


(a) Find the volume of the tank in cm^3. (2mks)

(b) How many litres of water does the above tank hold when full? (2mks)

23. (a) In a class of 50 students, 30 play football (F), 25 play volleyball (V) some play both football and volleyball while 3 students play none of the two games.

(a) Complete the Venn diagram. (3mks)



(b) Find the value of X (2mks)

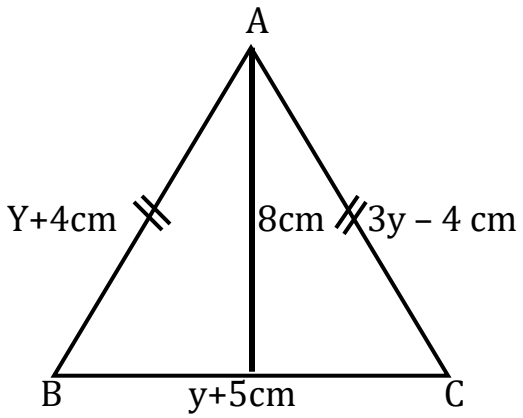
(c) Find the probability of picking at random from the class a student who plays only one game. (1mks)

24. **Work out:**

(a) $\frac{0.12\ x\ 0.8}{0.4\ x\ 0.3}$ (3mks)

(b) Given that a = $\frac{2}{5}$ and b = 25, find the value of ab. (2mk)

25. **The diagram below is a triangle. Study it carefully and answer the given questions correctly.**



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

(b) Work out the base of the triangle. (2mks)

(c) Calculate the area of the triangle. (1mk)

26. A trader bought ten watches at sh. 10,000 each.

(a) Find his cost price for the ten watches. (2mks)

(b) He sold each watch at sh. 12,000. Find the selling price for the ten watches. (1mk)

(c) Calculate his percentage profit. (2mks)

27. At a birthday party attended by 60 guests , $\frac{3}{10}$ were males and the rest were females.

(a) Find the fraction of the female guests. (1mk)

(b) How many male guests attended the party? (2mks)

(c) How many more female guests than male guests attended the party? (2mks)

28. Esther is twice as old as Ritah. Their total age is 21 years.

(a) How old is Ritah? (2mks)

(b) Find Esther's age. (1mk)

(c) Solve $3(K - 2) = 10$ (2mks)

29. Using a ruler, a pencil and a pair of compasses only, construct a triangle PQR such that line $\overline{PQ}$ = 8m, $\overline{QR}$ = 6cm, $\overline{PR}$ = 5cm. (4mks)

(b) measure the $\angle$ RPQ (1m)

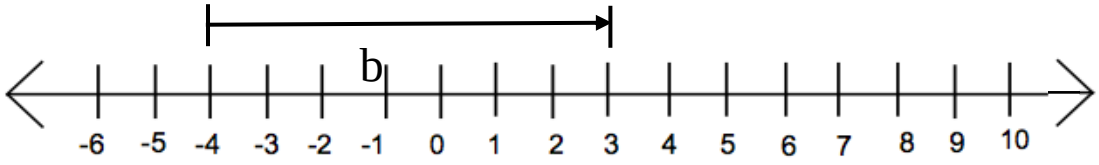
30. (a) Express 30 as a product of its prime factors. (1mk)

(b) Find the least number of apples that can be shared by either 12 girls or 15 girls to leave a remainder of 4 apples. (2mks)

(c) The L.C.M of X and Y is 24 and their G.C.F is 2. If X = 8, find the value of Y. (2mks)

31. Study the number line below.

(a) Write the integer represented by letter b (1mk)



b = _____

(b) Arrange the following integers in ascending order? (2mks)

– 1, +3, – 3, 0

(c) Find the range of the numbers above.

32. **Musa deposited sh. 96,000 to Stanbic ban which offers an interest rate of 10% per annum for 3 years.**

(a) Ho much interest will he get after a period of 3 years? (2mks)

(b) How much amount will he get after 3 years? (3mks)

THE END