NTUNGAMO DISTRICT MOCK EXAMINATION 2023.

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Random No

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 Hours 30Minutes

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- 2. Section A has 20 questions (40marks).
- 3. Section B has 12 questions (60marks).
- Attempt ALL questions in both sections. All answer to both sections A and B must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- 6. Unnecessary alteration of work will lead to loss of marks.
- Any handwriting that cannot be easily read may lead to loss of marks.
- Do not fill anything in the table indicated "For Examiners' Use Only."

FOR EXAMINER'S USE ONLY				
QN. No.	MARK	SIGN		
1-10				
11 - 20				
21 – 30	18 3			
31 – 32				
TOTAL	(

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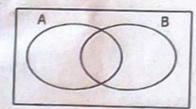
@ Ntungamo District Academic Panel 2023.

SECTION A: (40marks)

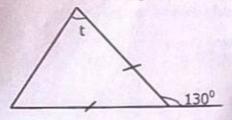
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- 1. Workout: 49 + 13
- 2. Simplify: 7 11
- 3. Write CLXIV in Hindu Arabic numerals.
- 4. Find the next number in the sequence.

- 5. Solve the equation. 3m 2 = 19
- 6. Change 13_{ten} to binary base.
- 7. A die is tossed once. What is the probability that a number is greater than 4 will appea on top?
- 8. Shade A¹ in the Venn diagram below.



- 9. A car moved at a speed of 48km/hr for 20minutes. What distance did it cover?
- 10. The mean of 3, 4, t, 5 and 6 is 5. What is the value of t?
- 11. Round off 54.361 to the nearest tenth.
- 12. Convert 10m2 to cm2
- 13. Find the value of t in degrees.



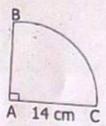
- 14. What is the complement angle of $(y 20)^{\circ}$?
- 15. Four boys can build a kraal in 12 days. How many more boys are needed to do the same work in 8 days?

16. A trader sold a shirt at sh. 45,000 and made a loss of sh. 7000. How much did he buy the shirt?

17. Using a ruler, pencil and a pair of compasses only, construct an angle of 105°.

18. Use distributive property to work out (65 \div 4) + (35 \div 4).

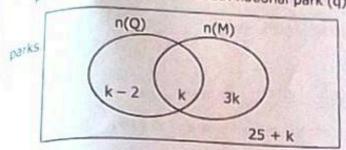
9. Find the length of the arc BC in the diagram below. Use $| \hat{j} | = 22$



20. In the figure below, find the length marked h.

SECTION B: (60marks0

The Venn diagram below shows the number of tourists who visited Murchson falls national park (M) and Queen Elizabeth national park (q)



(a) If 30 tourists visited neither Marchson falls nor Queen Elizabeth National

Find the value of k. (Zmarks)

- b) Find the total number of tourists who visited.
 - (i) Murchson falls national park. (2marks)
 - (ii) Queen Elizabeth national park. (1mark)

22. The bill table below shows Juma's shopping at the beginning of term two 202 a) Complete it correctly. (5marks)

Item	Quantity	Unit cost	Amount	
Pens	4	Sh. 600	Sh	
Rulers		Sh. 1000	Sh. 8000	
Books	10	Sh.	Sh. 25000	
Pencils		Sh. 200	Sh. 4000	
Total amount			Sh.	

b) If Juma was given a discount of 10%, calculate amount of money he paid. (1mark)

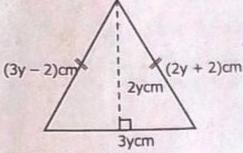
- 23. Three bells are used in a Primary School, one for lower primary is rung after every

 30minutes, for middle primary is rung after 40minutes and for upper classes is rung

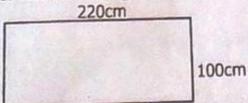
 After 50minutes.
 - a) At what time will the bells be rung together again. (4marks)
 - b) How many lessons will have been taught in the middle primary? (1mark)
- 24. The mean of **9**, **7**, (2k + 5) and **10** is **8**. a) Find the value of k. (3marks)
 - b) Find the median. (2marks)
- 25. The length of one side of a Rhombus is 15cm.
 - a) Calculate the length of the shortest diagonal, if the other diagonal is 24cm. (3marks)
 - b) Calculate the area of the Rhombus. (2marks)
- 26. Given that y = 2x + 1. Complete the table below. (5marks)

X	2		-1		0
Υ		9		-5	

- A father is 25 years older than his daughter. In ten years time, the father will be twice a old as his daughter.
 - a) How old is the father now? (3marks)
 - b) Express the age of the daughter as a percentage of her father's age now. (2marks)
- 28. The figure ABC below is an Isosceles triangle. Use it to answer the questions that follow.



- a) Find the value of y. (2marks)
- b) Find the area of the triangle ABC. (3marks)
- 29. A piece of metal below was folded to form a cylindrical container. Use it to answer the following questions.



a) Calculate the area of the piece of metal above. (2marks)

- b) Workout the volume of the cylindrical container formed. (Use $\overline{11} = \frac{22}{7}$) (3marks)
- 0. a) The interior angle of a regular polygon is four times its exterior angle, rind the size of the exterior angle of the polygon. (2marks)
 - b) Find its interior angle sum. (3marks)

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31. Three taps X, Y, and Z are connected to a tank. Tap x can fill the tank in 8 minutes, tap Y can fill the same tank in 10 minutes while tap z empties the tank in 20 minutes How long will all the taps take to fill the tank, if they are all open at the same time?

(4marks)

- 32. An aeroplane flew from Nairobi on a bearing of 120° to Juba for a distance of 500km. Then the aeroplane left Juba on a bearing of 240° to Lagos for a distance of 800km.
 - a) Using a scale of 1cm to 100km, draw an accurate diagram to show the route of the Aeroplane. (4marks)

b) Find the shortest distance between Nairobi and Lagos. (1mark)

END