

# JINJA CITY ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATION 2023

## MATHEMATICS

TIME ALLOWED : 2HOURS:30MINUTES

Index No.

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Candidate's Name:.....

candidate's Signature.....

School Name:.....

District Name:.....

FOR EXAMINER'S  
USE ONLY

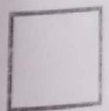
Read the following instructions carefully

1. The paper has **two** Sections A and B
2. Answer all questions. All answers to both section A and B must be written in spaces provided.
3. **All** answers must be written using a blue or black ball point pen or ink.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes shown: **"For Examiners' Use Only"** and those inside the question paper

### FOR EXAMINER'S USE ONLY

Qn. No.	Marks	Examiner's No.
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

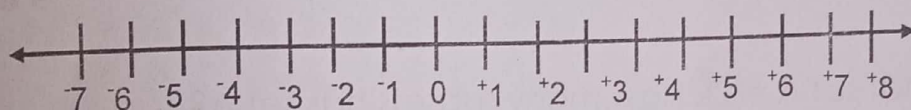
1. Work out:  $21 + 12$
2. Find the next number in the sequence: 1, 3, 6, 10, 15, \_\_\_\_
3. Show one thousand twelve in Roman numerals.
4. Given that  $a = 5$ ,  $b = 4$  and  $c = 6$   
Substitute  $a(b+c)$  ?
5. Work out  $2^4 - 2^2$ .
6. Using a protractor, ruler and a pencil only draw an angle of  $100^\circ$



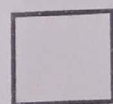
7. Write 5:25pm in 24 hour clock system.

8. Using place values expand 32780.

9. Using a number line find the additive inverse of 7



10. What is the acute angle between the hour hand and minute hand at 6.20am.



11. Find the mean of  $n$ ,  $(n+20)$  and  $(n+40)$

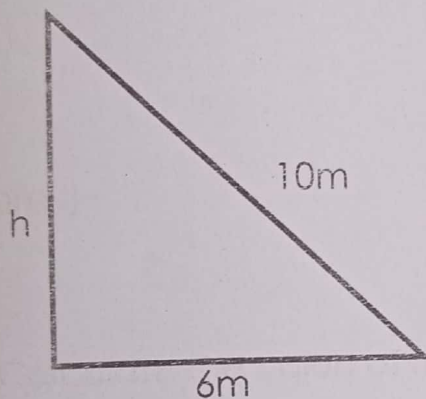
12. In her game, Kinusu uses only 200 shilling coins. How many such coins will she get from five hundred coin?
13. Solve:  $\frac{p}{10} = \frac{2}{5}$
14. Given that set  $A = \{2\}$ . How many subsets has set A?
15. Using a dial clock work out  $2 \div 3 = \underline{\hspace{1cm}}$  (Mod 5)
16. Add:  $\frac{1}{4} + \frac{3}{4}$





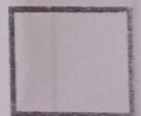
17. A half kg of sugar costs shillings 2400. Find the costs of 2kg of sugar.

18. Calculate the value of  $h$



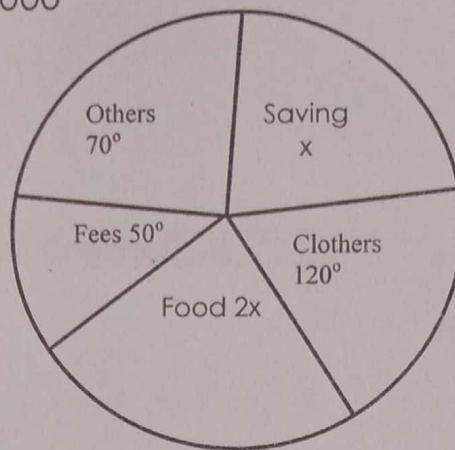
19. Moses was born 636 months ago. what is his age?

20. The area of a rectangle is  $48\text{cm}^2$ . Find its length if its width is  $6\text{cm}$



## SECTION B (60 MARKS)

21. The pie chart below shows Mr. Lukere's expenditure of his monthly salary of shs. 450,000



(a) What is the sector for saving? (2marks)

(b) What fraction of his salary does he spend on clothes? (2marks)

(c) on which event does he spend sh 62500? (2marks)

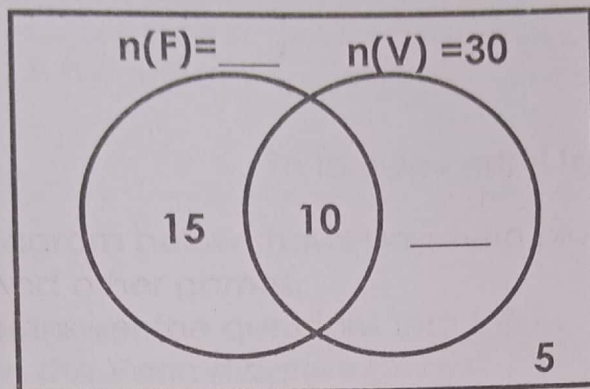
22.

The Venn diagram below shows boys who played football (F) and Volley (V). And other games.

Study it and answer the questions that follow.

(a) Complete the Venn diagram below.

(2marks)

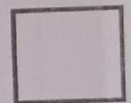


(b) How many boys played only one game?

(2marks)

(c) Find the probability of picking a boy at random who played Football?

(1mark)



23.

With the help of a pencil, pair of compass and a ruler only. Construct a triangle ABC where line AB = 6.cm, AC = 8cm and angle BAC =  $75^\circ$

(4marks)

24. (a) work out  $1101_{\text{two}} - 11_{\text{two}}$ .

(2marks)

(b) If  $24_n = 22_{\text{six}}$ . What is the value of  $n$ ?

(2marks)



25. (a) What is  $\frac{2}{9}$  of 36 pens.

(2marks)

(b) Simplify:  $\frac{3.6 \times 0.8}{1.2 \times 4 \times 0.2}$

(3marks)

26. Atim took Panadol, Coartem and Amoxil at intervals of 6 hours, 12 hours and 8 hours respectively.

(a) After how many hours will she take all the 3 kinds of medicine at the same time again?

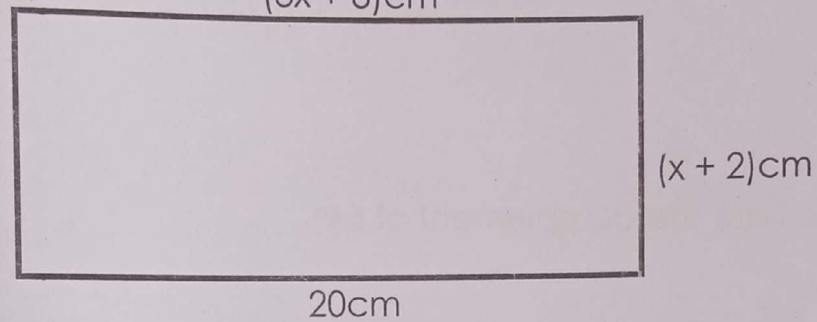
(3marks)



- (b) If she is going to take all this medicine at 8:00am, at what time did she take it all together before? (2marks)



27. Study the figure below and answers questions that follow:

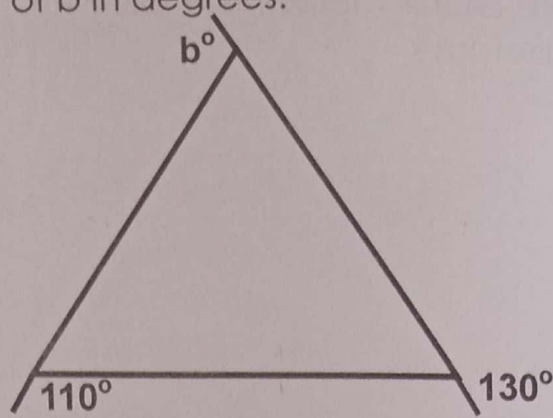


- (a) Find the value of  $x$ . (2mark)

- (b) Calculate the total distance around the figure above. (2marks)

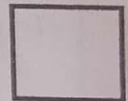
28. (a) Find the value of  $b$  in degrees.

(2marks)



(b) Calculate the complement of  $64^\circ$ .

(2marks)

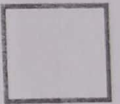


29. (a) A car travelling at  $80\text{km/hr}$  takes 3 hours to cover the journey. How long is the Journey? (2marks)

(b) At what average speed will this car move to reduce that time by 30 minutes. (3marks)

30. (a) 4 men take 12 days to paint a house. How many men can paint the same house in 6 days when working at the same rate. (2 marks)

(b) Express 0.8 as a percentage. (2 marks)



31. Nabutono went to the shop and bought the following items.  
2  $\frac{1}{2}$  kg of sugar at shs. 4000 per kilo.  
500g of salt at shs. 2000 per kilo.  
2 bars of soap at shs. 6000 per bar.  
250g of ground nuts at shs. 6000.

(a) What is her total expenditure? (4 marks)

(b) If she went with shs. 50,000 to the shop, What was her change?  
(2mark)

32. (a) Solve:  $3(n + 2) + 2(n + 4) = 24$  (3marks)

(b) A father is three times as old as his son. Their total age is 60 years.  
(i) How old is the son (3 marks)

(ii) How old will the father be when the son is 30? ( 2marks)

