

KIKUUBE DISTRICT ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATIONS, 2023

PRIMARY SEVEN

MATHEMATICS

Time Allowed: 2 hours 15 minutes

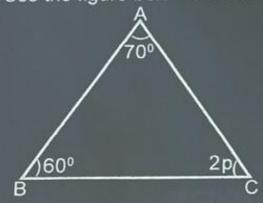
Rando	andom Number		Personal Number				

Candidate's Name:			
Candidate's Signature			
School:			
District: DO NOT OPEN THIS BOOKLET UNTIL YOU A	RE TOLD	ro d	o so.
Read the following instructions carefully:	FOR EX	AMINE	
1. This paper is made up of two Sections: A and B.	Qn. No.	ONLY Marks	Exrs' No.
 Section A, has 20 short-answer questions (40 marks) and Section B has 12 questions (60 marks) 	1 - 5 6 - 10		
 All the working for both sections A and B must be shown in the spaces provided. 	11 - 15 16 - 20		
All working must be done using a blue or black ball - point pen or fountain pen. Only diagrams should be done in pencil.	21 - 22 23 - 24		
. No calculators are allowed in the examination room.	25 - 26		
. Unnecessary alteration of work may lead to loss of marks.	27 - 28 29 - 30		
Any handwriting that cannot easily be read may lead to loss of marks.	31 - 32		
Do not fill anything in the boxes indicated "For examiners' use only"	TOTAL		

Turn Over

15. Express 5978 in standard form.

16. Use the figure below to answer the questions that follow. Find the value of p.



17. If set K has 31 proper subsets, how many elements are in set K?

18. Solve for p: $\frac{3}{5}$ p + 4 = 2 + p.

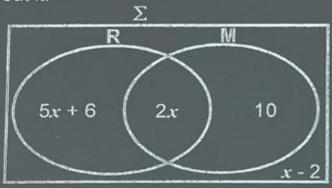
19. Write XLV in words.

 The LCM of two numbers is 180 and their GCF is 6, find the second number if the first number is 30.

SECTION B: (60 Marks)

Answer all questions in this section. Marks for each question are indicated in the brackets.

21. The venn diagram below shows the number of pupils who like Matooke (M) and those who like rice (R). Study it carefully and answer the questions about it.



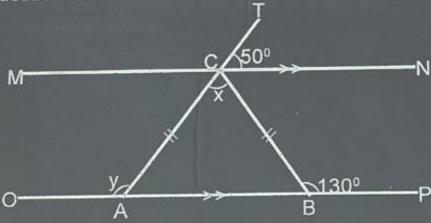
(a) If 20 pupils like rice, find the value of x.

(2marks)

	(b) Find the probability of picking a pupil who does not like rice.	(1mark,
	(c) How many pupils like only one type of food?	(2marks)
22.	The Headteacher distributed some text books among three clase each child got a text book in P.6, P.5 and P.4 in the ratio of 3:7:5 results of 42 text books	ses whei pectively.
	(a) How many children are in the three classes?	(4marks)
	(b) How many more children are in P.4 than P.6?	(2mark

23. (a) Given that the interior angle of a regular polygon is four times its exterior angle, name the polygon.
(2marks)

(b) In the diagram below, MN is parallel to OP. ABC is an isosceles triangle, TCN = 50° and angle CBP = 130°, Study it carefully and answer the questions that follow.



Find the size of;

(i) angle y

(2marks)

(ii) angle x

(2marks)

	THE RESERVE							
24.		Given the nu	ımeral: 460	392.			The state of the s	
	(a) Expand	the above	numeral ı	using exp	onents.		(2marks)
	(b)	Find the que numeral a	uotient of t bove.	he value o	of 6 and th	ie place va	alue of 9 in	the given (2marks)

Esau drove from home at a speed of 60km/hr to school for 2 hours to visit his daughter Jackline. He spent 30 minutes talking to his daughter and then continued to his place of work which is 40km from school for 1½ hours.

(a) How far is his place of work from his home?

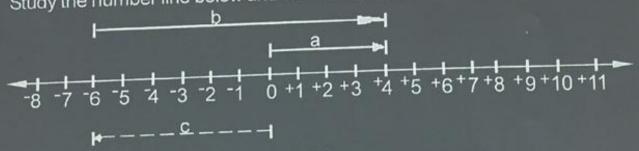
(2marks)

(b) Find his average speed for the whole journey.

(3marks)

26. At Kapere's supermarket, a basin costs twice the cost of a ruler and a pen costs sh 2000 less the cost of a basin. If Kadoma bought the three items at sh 3000, find the cost of each item. (4marks)

27. Study the number line below and use it to answer the questions that follow.



- (a) Identify the integers represented by;
- (i) a represents ______ (1mark)
- (ii) b represents ______ (1mark)
- (iii) c represents ______ (1mark)
- (b) Write the mathematical sentence shown on the above number line.

(1mark)

28.	(a) Using a parallelo	ruler, pencil and a pair of compasses ONLY, constru gram PQRS where PQ = 6cm, QR = 5cm and angle S	uct a PQ = 60°. (4marks)
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(b) Drop a perpendicular line from S to cut PQ at X. Measure SX. (2marks)

29. Jacob went shopping and bought the items below.

Items	Quantity	Unit cost	Total cost.
Bread	3 loaves	sh. 4,400	sh.
	bars	sh. 3,500	sh. 7,000
Soap	2kg	sh.	sh. 5,000
Wheat flour	ZNY		sh.
Grand total			

(a) Complete the table above.

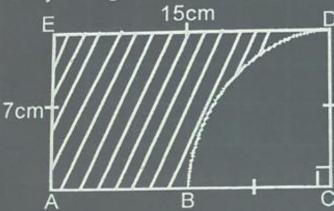
(4marks)

(b) If he was given 10% discount, how much was the discount? (2marks)

(b) Change 134_{five} to base three.

(3marks)

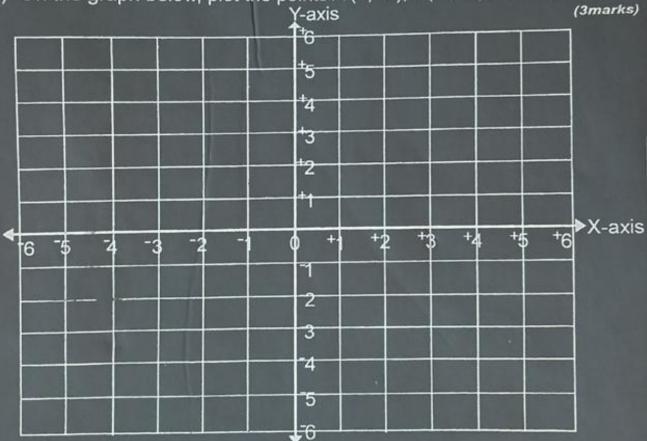
31. Study the figure below and answer the questions about it.



(a) Find the area of the shaded part ABDE. (Take $\pi = \frac{22}{7}$)

(2marks)

32. (a) On the graph below, plot the points A (0, +3), B(4, -3) and C(+4, -3).



(b) Join point A to B to C to A.

(1mark)

(c) Find the area of the figure formed.

(1mark)