

ASSOCIATION OF CATHOLIC EDUCATION INSTITUTIONS (ACEI) - MASAKA DIOCESE

PRE - PLE EXAMINATION - 2023

MATHEMATICS

Time allowed: 2hours 30 minutes

			School EMIS.		·	Personal No.			per.		-	
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Candidate's Name	:	2								22		
Candidate's Signatu	re :	! !										
School Name	:				-							
District Name	:											

Read the following instructions carefully.

- 1. This paper has two sections: A and B.
- 2. Section A has 20 questions (40 marks)
- 3. Section **B** has **12** questions (**60** marks)
- 4. Answer **ALL** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
- 5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 7. Unnecessary crossing of work will lead to loss of marks.
- 8. Any handwriting that cannot easily be read may lead to loss of marks.
- 9. Do not fill anything in the boxes indicated; **For Examiner's use only.**

FOR EXAMINER'S USE ONLY

QN. No.	MARKS	INITIALS
1 – 10		
11 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

Turn Over

SECTION: A

1.	Work out:	1	1	
		X	7	

2. Given that $Q = \{t, e, a, r, s\}$ and $R = \{a, e, i, o, u\}$. Find n(R-Q)

3.	Find	the	next	number	in	the	sequence	below	:
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93, 92, 89, 83, 73, _____

Find the value of 8 hundreds.

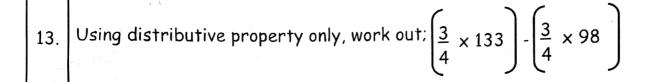
Work out: 7 + 4

Given that 12 men take 5 days to clear a piece of land. How many men are needed to clear the same piece of land in 15 days?

-2-

_				
	7.	A regular polygon has 8 triangles. Name the polygon.	8.	Show Twenty -five minutes to mid day on the clock face below.
			-G _	11 12 1 10 2 9 3 3 8 4 7 6 5
1	9.	Given that $P = 2$, $q = 4$ and $r = 0$	10.	The area of the figure below
		Find the value of <u>qr</u>		120m², find the value of h.
		р		/ >> /
				1 h 1
				24m
				2
4				
				×
		·		
		•		
	11.	The average weight of 3 girls is 102 kg. calculate the weight of t		. If the total weight of 2 girls is
		102 kg. culculate the weight of the	116 111	S 311 1.
2.0				
7 P				

	to ano
12	Jane was given a bundle of two thousand shilling notes amounting to one
15.	Jane was given a bundle of two mousains states in han bundle
	hundred thousand shillings. Find how many notes were in her bundle.
	rianarea maasuna siinings. Fina voo voor



15.

14. Given the diagram below shade P∩Q P

John's father is 59 years old. Write his age in Roman Numerals

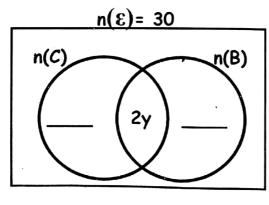
16. Work out the square root of 0.25

17.	In the digaram hale si						
	In the diagram below. Find the value of P in degrees.						
1	60°\	→					
	2p						
		→					
18.	How many nackata Cours		I				
	How many packets of OMO each	19.	Write 17068 in words.				
	weighing 250g can be obtained from a 2kg busket full a conse	,					
	from a 2kg bucket full of OMO?						
	,						
,							
				. :			
			`				
20.	A mathematics lesson started at :	11:30c	a.m and ended at 1:15p.m.	Find how			
	long was the lesson?			,			
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			,				
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	•		•				
				•			
		-5-	_				

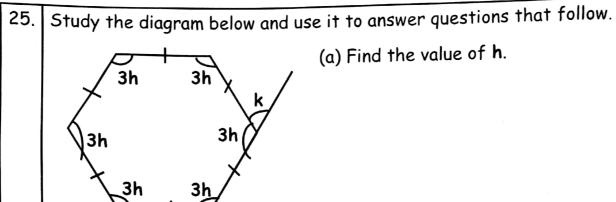
grow Beans (B) only, 2y farmers grow both Cassava and Beans.

(a) Present the above information on a Venn diagram.

(2mks)



				ava and Beans? (3mrks)
	(b) Find how many farme	ers grow both Casso	ava and Beans? (3mrks)
	*			
				•
				·
		· · · · · · · · · · · · · · · · · · ·		
24.	TI	ne table below shows N	Maria's shopping bill	
4 .	''			Total cost
		Item	Unit cost	Sh
		3kg of sugar	Sh. 3600	Sh. 10500
		kg of rice	Sh. 4200	Sh. 700
		500gm of salt	Sh	Sh
		Total		
	(a) Complete the table al	oove.	(4mks)
		,		
			200 (har haine aire	an a discount What was her
	(b)) If Maria paid Sh. 19,8	300 after being give	en a discount. What was her (2mks)
		percentage discount?		(2,,,,,,)
			·	
			,	



(a) Find the value of h.

(3mks)

(b) Calculate the size of angle k.

(2mks)

(2mks)

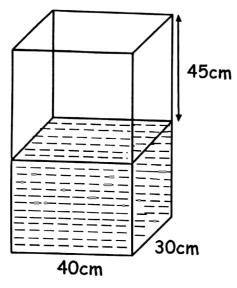
26. (a) Work out: $111_{two} + 110_{two}$

b) Express 123_{four} as decimal base.

(2mks)

-8-

27. The diagram below shows a rectangular tank a farmer uses to collect his milk from the cows.



(a) If the tank is $\frac{1}{4}$ full of milk. Find the height of the full tank. (2mks)

(b) How many litres of milk are in the tank now?

(3mks)

28. (a) Solve for x: 3(3x - 3) = 18

(3mks)

	(b) Peter is 12cm taller than Jane. If the sum of their heights Find Jane's height.	is 48cm. (2mks)
29.	A trader deposited Sh. 800,000 in a bank for 9months at a sin	nple
	interest rate of 10% per year. (a) Find how much interest the trader got.	(3mks)
,	(b) Work out the total amount of money a trader will earn after period. (2mks)	er that
	- 1985	
30.	Study the abacus below and use it to answer the questions that	t follow.
	(a) Complete the abacus below. (1mk) Th H T O	
	-10-	

	(b) Write the number represented on the abacus above in expanded form using exponents. (2mks)
	·
	·
	(c) Express the above number in scientific notation. (2mks)
-	
1 1	
31.	A taxi driver leaves station Masaka at 9:45a.m. and reaches Kampala
	station at 2:15p.m. If he was driving at a speed of 40km/h. (a) Calculate the distance between the two stations. (3mks)
.d	
	-11-
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(b) If he returned using $1^{\frac{1}{2}}$ hours from Kampala	to Masaka.	What was his
average speed for a whole journey?	(2mks)	

32. Primary Seven candidates of a certain school were asked to tell the favourite sodas when they went for a tour as the table below shows.

Type of soda	Fanta	Mirinda	Novida
No. of children	30	20	40

Use a radius of 3.5cm to present the above information on a well labelled Pie-chart. (5mks)

-12-END