

ASSOCIATION OF CATHOLIC EDUCATION INSTITUTIONS (ACEI) - MASAKA DIOCESE PRE - PLE EXAMINATION - 2023

MATHEMATICS

Time allowed: 2hours 30 minutes

School EMIS.

L			L	L			 		
Candidate's Name	:						 	 	
Candidate's Signature	:				للمراه	age and			
School Name	:								
District Name	:						 	 	_

Read the following instructions carefully.

- I. 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.
- Unnecessary crossing of work will lead to loss of marks.
- 8. Any handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in the boxes indicated;For Examiner's use only.

FOR EXAMINER'S USE ONLY

Personal No.

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

Turn Over

SECTION: A

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:

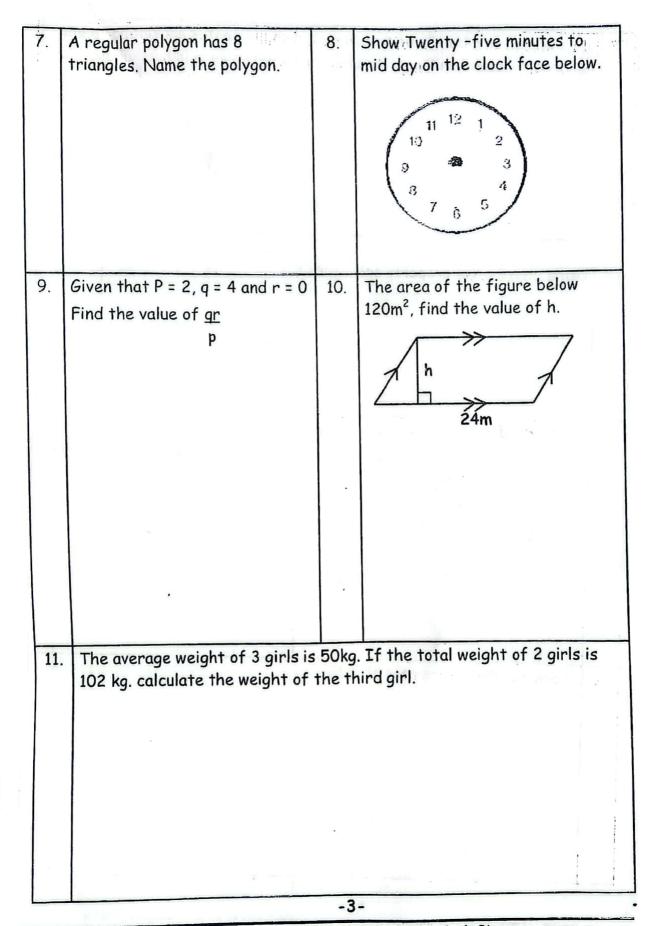
93, 92, 89, 83, 73,____

4. Find the value of 8 hundreds.

5. Work out: 7+4

6. 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-



Using distributive property only,	work out; $\left(\frac{3}{4} \times 133\right) - \left(\frac{3}{4} \times 98\right)$
1	
Given the diagram below shade	15. John's father is 59 years old.
$P \cap Q$ P	Write his age in Roman Numerals
	Given the diagram below shade PQQ PQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ

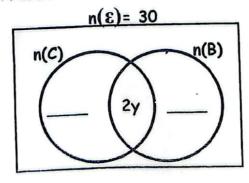
-4-

17.	In the diagram below. Find the value of P in degrees.
	60°/2p
18.	How many packets of OMO each 19. Write 17068 in words.
	weighing 250g can be obtained
	from a 2kg bucket full of OMO?
	\$ C + FC
20.	
	long was the lesson?
	the second of th
	- VE-481
	Contract the second second
	-5-

22.	(a) Workout:	$\frac{0.8 - 0.24}{0.4 \times 0.2}$ (3mks)	Simplify:	$\frac{5}{6} \div \frac{1}{2} \times \frac{1}{3}$	(2mks)
ч Бл	Amodila - s		gir - how by t		

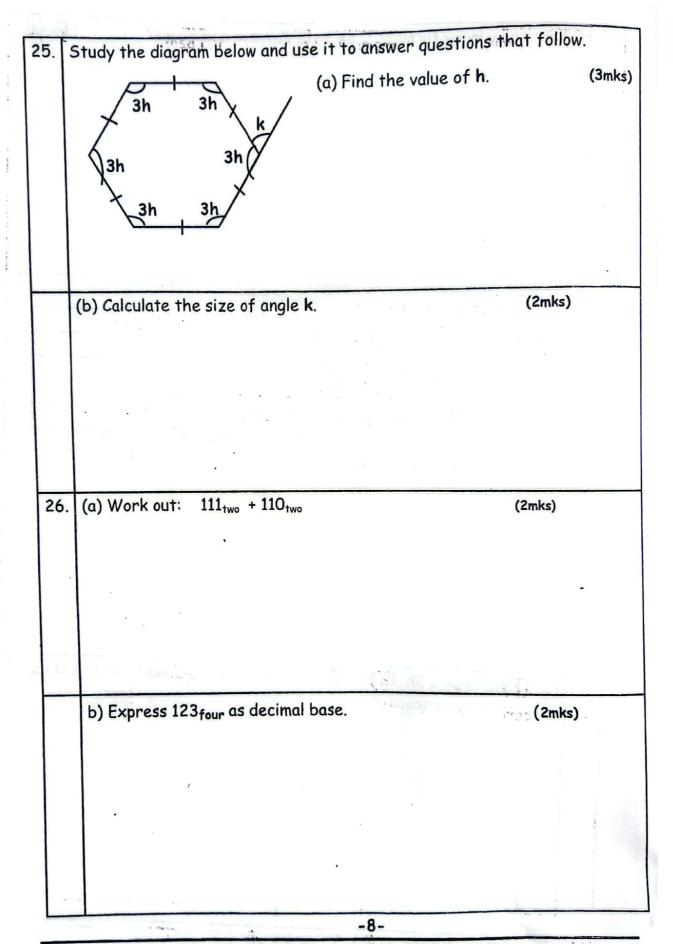
23. In a village of 30 farmers. 18 farmers grow Cassava (C), (3y - 3) farmers grow Beans (B) only, 2y farmers grow both Cassava and Beans.

(a) Present the above information on a Venn diagram. (2mks)

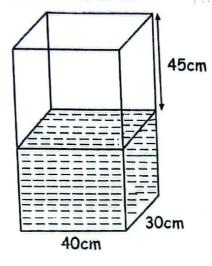


-6-

- 1	(b) Find how many farme	ers grow both Cassava and	d Beans? (3mrks)
	ji — ali e "	Mr. Ta	
	•	į.)
	-	1/1/2	1.
		* .	
		- A.	
			•
4.	The table below shows	Maria's shopping bill.	A superincipal and the superin
	Item	Unit cost	Total cost
	3kg of sugar	Sh. 3600	Sh
	kg of rice	5h. 4200	Sh. 10500
	500gm of salt	Sh	Sh. 700
	Total		Sh
	(a) Complete the table	above.	(4mks)
	-	· · · · · · · · · · · · · · · · · · ·	table of the second
			The state of the s
	(b) If Maria paid Sh. 1	9,800 after being given a	discount. What was her
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a t?	discount. What was her (2mks)
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a	discount. What was her (2mks)
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a	discount. What was her (2mks)
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a	discount. What was her (2mks)
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a it?	discount. What was her (2mks)
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a it?	discount. What was her (2mks)
	(b) If Maria paid Sh. 1 percentage discoun	9,800 after being given a	discount. What was her (2mks)



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)

(3mks)

10131 - 11 871

-9.

a Association of Catholic Education Institution (ACEI) - Masaka Diocese . .

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

	(b) Write the number represented on the abacus above in expanded form using exponents
	using exponents. (2mks)
	(Ellins)
	The state of the s
	(c) Express the above number in scientific notation. (2mks)
	• • •
	,
	,
31.	The second secon
	station at 2:15p.m. If he was driving at a speed of 40km/h. (a) Calculate the distance between the two stations. (3mks)
	(a) Calculate the distance between the two stations. (3mks)

(b) If he returned using $1\frac{1}{2}$ hours f	from Kampala to Masaka. What was hi
average speed for a whole journe	

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