

ANKOLE DIOCESE EXAMINATIONS SECRETARIAT

P.7 ENTRANCE EXAMINATION 2023

MATHEMATICS

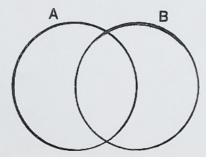
TIME ALLOWED: 2 HOURS 30 MINUTES.

INDEX NO.		EMIS NO					onal No.	5	
Candidate's Name									
Signature:									
School Name:									
EMIS No									
Archdeaconry				FOR EXAMINERS' USE ONLY					
							QN NO.	MARK	Examiner's Sign
1. This paper has	two Section	ons: A an	d B. S	Section	on A na	s 20	1-5		
questions and Section B has 12 questions.					6-10				
2. All the working for both section A and B must be shown in the spaces provided. No pieces of paper should be provided for rough work.				11-15					
				16-20					
 All working must be done in blue or black ball point pen of ink and NOT in pencil. Only diagrams and Graph work 				21-22					
may be done in	pencil.	encil.					23-24		
4. Unnecessary changes		es of work may lead to				25-26			
loss of marks.						27-28		1	
5. Any handwriting may lead to los	that cann	ot be easi	ly read	d,			29-30		
6. The use of elec							31-3	2	
Mathematical ta	bles is no	les is not allowed.				TOTA			
7. Do not fill anyth "for Examiner	ing in the	box indically" and th	ited ose in	side t	the pap	er.			TURN OVER

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SECTION A (40 MARKS)

- 1. Work out: 194 + 33
- 2. Write 1905 in words
- 3. In the Venn diagram below, shade (A \cap B)



- 4. Work out: $\frac{1}{2} + \frac{1}{3}$
- 5. Find the next two numbers in the sequence below.

6. If represents 12 trees, draw pictures to represent 60 trees.

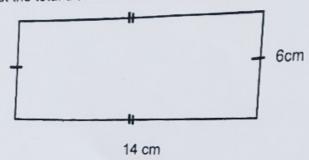
7. The length of a wire is 9 m. Express this length in centimetres. 8. Convert 321 five to decimal base. 9. write 96 in Roman numerals. 10. Find the lowest common multiple (LCM) of 12 and 18. 3 Turn over

Weeks	Day
4	5
+ 3.	3
	4

- 12. Calculate the circumstance of a circle whose diameter is 14 cm. (Take $\pi = \frac{22}{7}$
- 13. Simplify: 4 m + 4 k + m 2 k
- 14. A school staff meeting which lasted 11/2 hrs ended at 11:30 am.

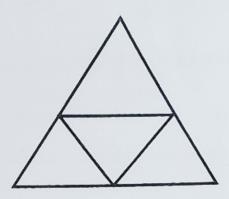
15. Using a ruler, a pencil and a protractor only, draw an angle of $55^{\circ}\,.$ 1 16. Increase 200 in the ratio of 5:4. 17. A motorist covered a distance of 180 km in $1^{1}/_{2}$ hrs . Calculate the motorist's speed in Km/hr 5 Turn over

18. Work out the total distance round the figure below.



19. A shopkeeper bought a shirt at shs. 18,500 and made a loss of shs. 2,500.
How much did he sell the shirt?

20. Name the shape whose net is shown below.



SECTION A (60 MARKS)

- 21. At a farewell party of 36 candidates, 22 candidates took Mirinda (M), K took Fanta (F) only, 11 took both Mirinda and Fanta while 2 candidates took neither Mirinda nor Fanta.
 - a) Use the above information to complete the Venn diagram below.

∩(**E**) = 36

b) Find the value of K.

(2 mks)

(3 mks)

7

Turn over

22. Given the digits 4, 0 and 8;

a) List down all the 3 – digit numerals that can be formed using the above digits.

b) Find the value of 4 in the smallest numeral formed.

c) Work out the range of the numerals formed above.

- 23. A parent paid school fees for his daughter at St.Agness Centre for Education Nursery and Primary school as follows;
 - 4 twenty thousand shillings notes.
 - 9 ten thousand shillings notes.
 - 9 five thousand shilling notes
 - 5- five hundred shilling coins.

Find how much the parent paid as school fees.

(5 mks)

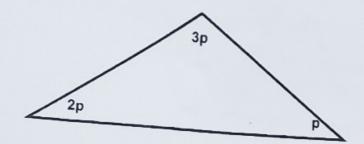
24. Study and complete the magic puzzle below.

(5 mks)

	11	4
	7	
10		_ 8

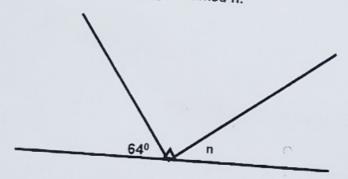






b) Calculate the size of the angle marked \mathbf{n} .





26. a) Work out: <u>0.6 x 0.08</u> 0.02 x 0.4

(3 mks)

b) Find the sum of 0.06 and 0.4.

(2 mks)

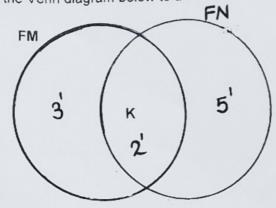
27. a) Using a ruler, a pencil and a pair of compasses only, construct a square (3 mks)

b) How many lines of folding symmetry has the figure constructed above ? (2 mks)

11

Turn over

28. Use the Venn diagram below to answer the questions that follow.



a) Given that the lowest common multiple (LCM) of M and N is 60, find the value of K.

b) Work out the value of M.

(2 mks)

c) Calculate the GCF of M and N.

(1 mk)

29. a) Solve for a: a + 6 = 14

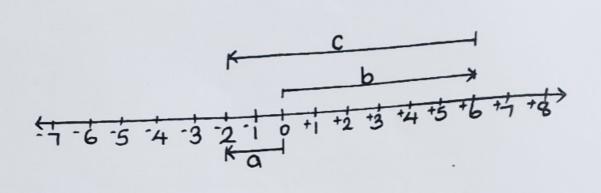
(2 mks)

b) If Naboth is 3K years old and Stephen is 4K years old, how old is each of them in 10 years' time if they ae now 28 years old altogether? (4 mks)

30. The sum of 3 consecutive even numbers is 36. Find the numbers.

(4 mks)

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

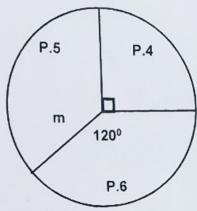


a) Name the integer represented by;

(1 mk each)

- b=____ ii)
- iii)
- b) Write down the Mathematical sentence for the number line above. (2 mks)

32. The pie chart below shows how pupils are distributed in different classes at Ebeneza Nursery and Primary school. Use it to answer the questions below.



a) Find the value of m.

(2 mks)

b) If there are 50 pupils in Primary four, find the total number of pupils in the three classes. (3 mks)

E ND