SIR APOLLO KAGGWA SCHOOLS SINCE 1996 PLE PREP TEST IX TERM 3 2023 PRIMARY SEVEN MATHEMATICS

Personal No.

Time allowed:

EMIS NO.

2 hours 30 minutes

Index No.											
Candidate's Na	ame:		PACIFICATIVE TOTAL VARIABLE DAY				Marining of the party of the state of the st	nik minimiya maan amki dala mini ku daki 2 Sertin kel		Jan vigor o consumer conyer akty o jenkel kryskép klasek	et.
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School Name:											

Read the following instructions carefully:

- 1. The paper has two sections: A and B
- Section A has 20 short questions (40 marks)
- 3. Section B has 12 questions (60 marks)
- Answer ALL questions. All answers to both Sections A
 and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
- 6. Unnecessary alteration of work may lead to loss of marks.
- Any handwriting that cannot be easily 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

Qn. No MARK SIGN

1 - 10

11 - 20

21 - 30

31 - 32

TOTAL

Turn over

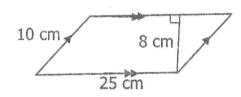
SECTION A: 20 QUESTIONS 40 MARKS

Numbers 1 to 20 carry 2 marks each

- 1. Work out: 4.2 + 1.3
- 2. Given that: set $A = \{\text{all the factors of 8}\}\$ and set $B = \{\text{all even numbers between 0 and 10}\}\$ Find $A \cap B$.

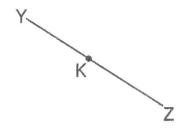
3. Write **20,023** in words

4. Find the area of the figure below



5. Find the lowest common multiple of 8 and 12.

6. Using a ruler, sharp pencil and a pair of compasses only construct a line through point **K**, perpendicular to **YZ** below.



7. Work out: $\sqrt{\frac{36}{144}}$

8. In a class of **60** pupils, **36** are girls. Find the ratio of boys to girls.

- 9. A meeting that lasted $3\frac{1}{3}$ hrs ended at **1:50** pm at what time did it begin?
- 10. Express 19_{ten} to binary base.
- 11. Solve: $a + 5 \le 3$

12. Work out: $1\frac{1}{4} + \frac{2}{3}$

- 13. The interior angle of a regular polygon is twice its exterior angle. Find the number of sides of the polygon.
- 14. Given that y = 2x 1, complete the table below

x	1	2	
y	Magnification of County and Count	3	9

15. Set V has 63 proper subsets. Find n(V)

- 16. Subtract d-2y from 3y 5d
- 17. A string measures **7.5** metres long. How many pieces each measuring **30** cm long can be cut from the string?

18. Work out: -9 -+9

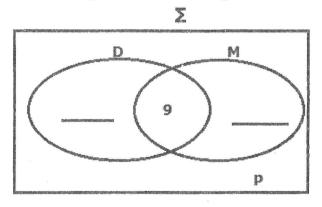
19. Divide **2583** by **63**.

20. Kawa deposited **5,000** shilling notes numbered consecutively from **CS**3056136 to **CS**3056185 in a bank. How much money did Kawa deposit?

SECTION B: 12 QUESTIONS 60 MARKS

Marks for each number are indicated in the brackets

- 21.In a class, (3p+2) pupils like debate (D) only, (p+5) like music (M) but not debate, 9 like both while p pupils do not like the mentioned activities.
- a) Complete the Venn diagram below using the information above.



b) If 36 pupils like either debate or music, find the value of **p**. (02marks) c) Find the probability that a pupil likes only music. (01 mark) 22. (a) Find the number which has been expanded below. (02marks) $(4\times10^4) + (7\times10^3) + (5\times10^\circ)$ (01 mark) (b) Round off 99,641 to the nearest thousands. (c) Write **CIX** in Hindu Arabic numerals. (01 mark)

- 23. Grace bought the following items from one seller
 - $\frac{1}{2}$ kg of sugar at Sh. 3,000 per kg
 - 6 passion fruits at Sh.1,000 for 3 passion fruits
 - 8 oranges at Sh.5,000

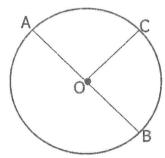
If Grace was offered a discount of 20% on his total expenditure;

(a) How much was the discount?

(04 marks)

(b) How much did Grace pay for one orange after the discount? (02marks)

24. The diagram below represents a wheel of a wheelbarrow where O is the centre. Line OC = 14cm and line AB = (t + 16) cm.



(a) Find the value of t.

(02 marks)

(b)	Find the nur	mber of revolu (use π as $\frac{22}{7}$)	tions the w	rheel mak	es to cove	r a distance o (03marks	
		J					
			*				
25.Nab (a)		years old and h any years will t			*	d as Nabukwa	si
					,		
	3			×			
(b)	How old w	vill the father b	e then?				

(01 mark)

26. (a) Express **0.8333.....** to a common fraction in the simplest form.

(02 marks)

(b) Work out: $4\frac{1}{2} \div 1\frac{1}{4} X 2\frac{2}{3}$

(03 arks)

27. The table below shows the performance of pupils of a certain school in PLE examination.

Number of pupils	15	25	20
Division	Div.1	Div.2	Div.3

Draw an accurate pie chart of radius 4 cm to represent the above information.

(05marks)

28.	Hajjati moved from town A town C via town B. she started her journey at
	8:00am and moved at 80km/hr for $1\frac{1}{2}$ hours to town B. she rested for
	30 minutes and then continued at 70km/hr and reached town C at 12:00
	noon.

(a)	How	far	is	town	A	from	town	C?
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(04marks)

(b) Calculate her average speed for the whole journey.

(02marks)

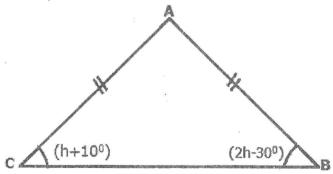
- 29. In a P.7 class, **30** pupils passed in division one, **36** passed in division two and the remaining **12%** passed in division three.
 - i) Find the number of pupils in the class.

(03 marks)

ii) Find the percentage of pupils who passed in division one.

(1 mark)

30.In the diagram below, line **AD** is parallel to line **BC** and line **AC** = line **AB**. Study the diagram and use it to answer the questions (a) and (b) that follow;



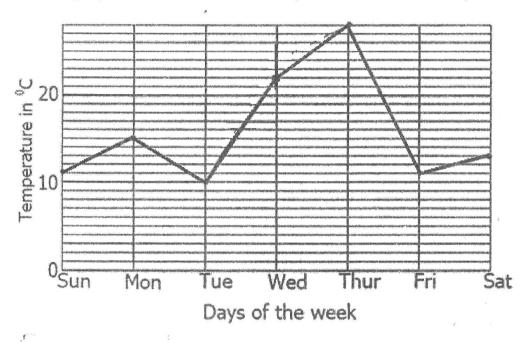
(a) Find the value of h.

(02 marks)

(b) Find the size of angle BAC.

(03 marks)

31. The graph below shows the temperature of a certain place for a week.



(i) What was the temperature recorded on Tuesday?

(01 mark)

(ii) Find the modal temperature recorded.

(01 mark)

(iii) Calculate the range in temperature.

(02 marks)

THE EI	ND Page 13
(b) Measure angle ABC =	(01 mark)
	, , , , , , , , , , , , , , , , , , ,
) Mari
	(04 marks)
32.(a) With the help of a ruler, sharp pencil a a rhombus ABCD in which line AB =	
	(02 marks)
(iv) What was the average temperature re	corded in the week.