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

Time allowed:

2 hours 30 minutes

Index No.	EMIS NO.	Personal No.	
Candidate's Na	me:		
	gnature:		
District Name:		:	
School Name:			

Read the following instructions carefully:

- The paper has two sections: A and B
- Section A has 20 short questions (40 marks)
- 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.
- 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		

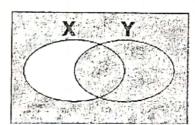
Turn over

SECTION A :40 MARKS

Questions 1 to 20 carry 2 marks each

- 1. Divide 26 by 2
- 2. Solve: 2(a 1) = 6
- 3. Write MIX in Hindu Arabic numerals
- 4. Find the next number in the sequence.

5. What region is shaded in the Venn diagram below?



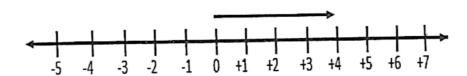
6. Work out : 8 + 12 ÷ 4

Abbo drove at a speed of 36km/hr. Express Abbo's speed in m/s.

8. Find the Greatest Common Factor of 18 and 54.

9. The range in Babirye's scores is **37**. If Babirye's lowest score is **59**, find her highest score.

10. Complete the number line below showing the statement +4 - (-3) = +7



11. Given that $a=b^2$, $b=^-3$ and c=5Find the value of c(a-b).

12. A circular flower garden was fenced using **55** poles fixed at intervals of **0.8 metres**. Find the distance round the flower garden.

13. Express a quarter past mid night to a 24-hour clock system.

14. Using a ruler and a pair of compasses only, construct a line through point **M** parallel to line **KL**.



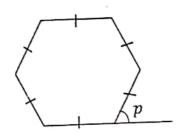
0 ...

М

15. Tito took **31**days weeding his cassava garden. He completed weeding the garden on Friday. What day of the week did he start weeding his garden?

16. Work out: $3 - 1\frac{2}{3}$

- 17. The marked price of a dress is **Sh.15,000**. When a customer buys the dress at a discount of **Sh.3,000**, the trader gains **Sh.2,000**. At what price does the trader buy the dress?
 - 18. Thirty packets of biscuits weigh **6kg**. calculate the weight of each packet in grammes.
 - 19. In the regular polygon below, find the size of angle marked p.



20. Find the median of the fractions below;

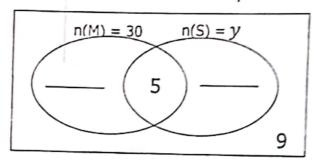
$$\frac{1}{2}$$
, $\frac{2}{3}$, $\frac{2}{5}$

SECTION B: 60 MARKS

Answer all questions in this section

Marks for each Question are indicated in the brackets.

- 21. In a school, **30** teachers teach mathematics (**M**), y teach science (**S**) and **5** teach both mathematics and science. (2y-11) teachers do not teach mathematics.
 - (a) Use the above information to complete the Venn diagram below.



(02marks)

(b) Find the value of y.

(03marks)

22. (a) Subtract **0.254** from **3**

2...

(02marks)

(b) work out:
$$\frac{1.43 + 2.17}{0.3^2}$$

(03marks)

23. The table below shows the costs of United States dollars (USD) and Kenya shillings (KES) in Uganda shillings (UGX) on Monday, Tuesday and Wednesday of a certain week. Study and use it to answer the questions that follow:

	Unit cost in Uganda shillings (UGX)			
Currency	Monday	Tuesday	Wednesday	
United States dollar (USD)	3745	3735	3746	
Kenya Shillings (KES)	25.15	25.0	24.46	

- (a) On which day did the Kenya shilling record the highest cost? (01mark)
- (b) Work out the amount of Uganda shillings Aturinde got from 250 United States dollars (USD) on Wednesday.

 (02marks)
- (c) Masinde converted 74,700 Kenya shillings to US dollars on Tuesday. Calculate the number of US dollars he got.

 (03marks)

24. The time table below shows how a bus moved from Soroti via Mbale to Kampala. Study and use it to answer the questions that follow

tilat ione	7 4 4		
SOROTI	Departure time from Soroti	8:30 am	
301011	Time taken to travel from Soroti to Mbale	1 hr 25 mins	
MBALE	Arrival in Mbale		
PIDALL	Departure from Mbale	10:30 am	
	Time taken to travel from Mbale to Kampala		
KAMPALA	Arrival in Kampala	2:30 pm	
	7 11 11 21 11 11		

a) Complete the time-table by filling in the missing information. (02marks) b) For how long did the bus stop in Mbale. (01mark) c) Find the total time taken by the bus to cover the whole journey while travelling. (02marks) 25.Cylindrical tins of diameter 10cm and height 7cm were filled with juice. The tins were then packed into a box measuring 50cm long by **40cm** wide by **20cm** high. (Use π as $\frac{22}{7}$). a) Find the total number of tins that filled the box. (2marks) b) Calculate the total capacity of the juice in the box in litres. (3marks)

26. Given that $\frac{2}{5}$ represents 36 boys and $\frac{2}{5}$ represents 48 girls. Study the pictograph below which shows the number of pupils in a school and use it to answer the questions that follow

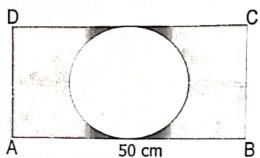
Class		Nu	ımber d	of Pupil	s	
P.1	2	7-	2	2	•	
P.2	圣	25	2	٠, ١		
Р.3	圣	2	子			
P.4	务	圣	2	圣	光	
P.5	光	2	2	2	~~	2

- (a) Which two classes have the same number of boys? (01mark)
- (b) Find the average number of pupils in the school. (02marks)

(c) Calculate the percentage of girls in the school. (02marks)

 A circular plate whose area is 616 cm² was cut from a rectangular metal sheet ABCD of length 50 cm as shown below.

(Use π as $\frac{22}{7}$)



(a) Find the width of the metal sheet.

(03 marks)

(b) Calculate the area of the metal sheet that remained after cutting the circular plate.

(02 marks)

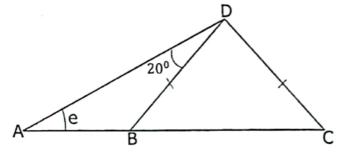
- 28. Opio has (3t + 150) cows, (1200 t) hens and (2t 500) goats on his farm. If there are three times as many cows as goats on Opio's farm;
 - (a) Find the value of t.

(03 marks)

(b) Find the number of hens on Opio's farm.

(01 mark)

29.In the figure below, **BCD** is an isosceles triangle. Angle **BDC** is three times angle **BAD**, angle **BDA** = **20**° and angle **BAD**=**e**.



(a) Find the value of e in degrees.

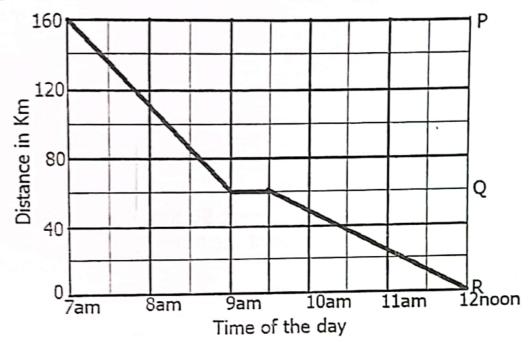
(03marks)

(b)	Find the size of angle ABD
	(02marks)
20	
30. (a)	Mugerwa sold a phone to Nagawa at Sh. 340,000 making a loss of 15%. Nagawa later sold the phone at a profit of 25%. Calculate the amount of money Mugerwa paid for the phone.
	(03 marks)
	÷.
(b)	Find the profit Nagawa made.

12 | Page

(02 marks)

31.A motorist travelled from town **P** to town **R** via town **Q**. Study the graph below carefully and use it to answer the questions that follow.



(a) What was the departure time of the motorist?

(01mark)

(b) For how long did the motorist stay at town Q?

(01mark)

(c) How far is town Q from town R?

(01mark)

(d) Calculate the motorist's average speed over the whole journey?

(02marks)

32.Lake **A** is **300 km** west of Lake **K** and Lake **G** is **500 km** from Lake **K** on a bearing of **240**°.

(a) Draw a sketch diagram to show the location of the three lakes.
(01 mark)

(b) Using a scale of **1 cm** to represent **50 km**, draw an accurate diagram to show the location of the three lakes. (03 marks)

(c) From your accurate diagram, find the bearing of Lake A from Lake G. (01 mark)

THE END