

SIR APOLLO KAGGWA SCHOOLS SINCE 1996
PLE PREP TEST VII TERM 3 2025
PRIMARY SEVEN
MATHEMATICS

Time allowed: 2 hours 30 minutes

Index No.

EMIS No.						Personal No.			

Candidate's Name: _____

Candidate's Signature: _____

District Name: _____

School Name: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**.
2. Section **A** has 20 short 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.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. 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)

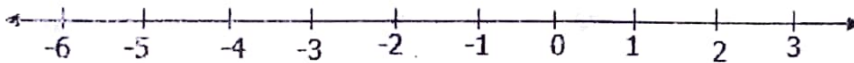
1. Add: 3 9

$$\begin{array}{r} + 12 \\ \hline \end{array}$$

2. Write in numerals "Twelve thousand forty"

3. Simplify $5k - 2k + k$

4. Show $-3 - -4$ on the number line below.



5. Find the next number in the sequence below:

1, 6, 36, 216, _____

6. Simon had 4 notes of five thousand shillings. He decided to change the money in small denominations of **sh.2000**. How many such denominations did he get?

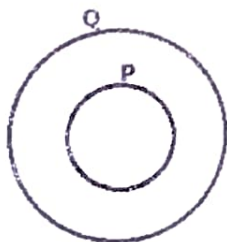
7. Using a pair of compasses, ruler and a sharp pencil, construct an angle of $67\frac{1}{2}^\circ$.

8. On a certain day, it rained from **10:30 pm** to **2:15 am** the following day. For how long did it rain?

9. At a weigh bridge, the weight of a truck full of cement was **42.5 tonnes**. The weight of a truck alone was **2.5 tonnes**. Find the weight of the truck when half full of cement.

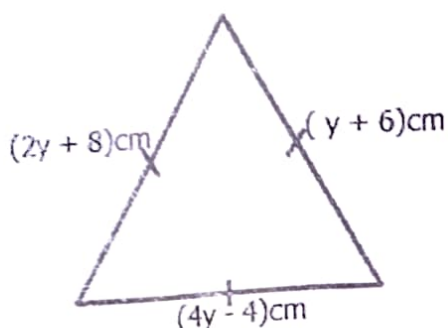
10. A farmer had some sheep on his farm. He decided to buy more and the number increased by **20%** If the new number of sheep became **48**, find the number of sheep he had at first.

11. In the Venn diagram below, shade **$P \cap Q$** .



12. The bearing of Town **A** from Town **B** is 120° . Find the direction of Town **B** from Town **A**.

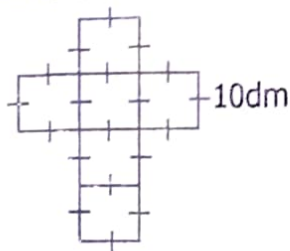
13. The diagram below shows a triangular plastic card. Find the value of y .



14. Find the least number of pancakes when distributed to **3** children, **2** pancakes remain but when distributed to **5** children, only one Pancake remains.

15. Subtract $3m + 4$ from $5m + 5$.

16. Calculate the volume of the solid figure whose net is drawn below.



17. The median of **7** consecutive even numbers is **40**. Find the largest number.

18. Without actual division, which of the following numerals is exactly divisible by **7**?

2734, 4725.

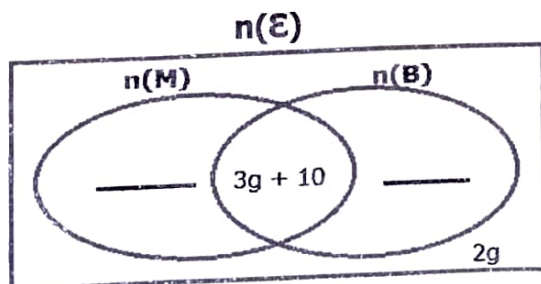
19. Round off **724.63** to the nearest units.

20. A regular polygon has **10** right angles. Find the number of sides the polygon has.

SECTION B (60 marks)

21. In a conference, participants were served with Meat (M), Beans (B) and other dishes. **(g + 20)** participants were served with only Meat, **(3g + 10)** were served with both Meat and Beans, **15** were served with Beans only while **(2g)** were served with other dishes.

a) Complete the Venn diagram below using the given information. (2 marks)



b) If 30 participants were served with Meat but not Beans, find the value of **g**.
(2 marks)

c) Calculate the number of participants who attended the conference. (1 mark)

22. a) If $200_{\text{three}} = 2002_n$, find the value of the unknown base **n**. (3 marks)

b) Multiply: $212_{\text{three}} \times 11_{\text{three}}$ (2 marks)

23. a) The table shows the number of pupils who sat for end of term one exam in a class of 10 pupils.

Marks:	80	50	70	. 40
No. of pupils:	y	1	3	4

If the mean mark of pupils who scored **70** and above was **74**, find the value of **y**.
(3marks)

b) Calculate the number that is half way between **0.4** and **12.8**. (3marks)

24. Town **Q** is **70m** on a bearing of **130°** from Town **P** and Town **P** is **80m** on a bearing of **060°** from Town **K**.

a) Draw a sketch diagram to show the position of all the three Towns. (1 mark)

b) Using a scale of **1cm** to represent **10m**, construct an accurate diagram to show the position of all the three towns. (4 marks)

c) Measure the size of angle **PKQ**.

(1 mark)

25. a) Mary is twice as old as John. Peter's age is a quarter that of Mary. If the total age for John and Peter is **18** years, find Mary's age. (3 marks)

b) Solve: $\frac{2}{m} + 4 = 8$

(2 marks)

26. The information below shows how Dr. Mwino pays his workers a weekly allowance:

- 2 workers on a poultry farm are paid sh 15,000 each
- 4 workers on a fish farm are paid sh 40,000
- 20 workers on a cattle farm are paid sh 30,000 for every 4 workers. If a watchman is paid twice the allowance of each worker on the fish farm, calculate Dr. Mwino's weekly expenditure on his workers. (5 marks)

27. A reading room with a ceiling board measures **10m** long, **8m** wide and **15m** high.

a) Calculate the total area of its walls and the ceiling board. *(3 marks)*

b) If the cost of painting each square metre is **sh.50**, find the amount of money required to paint the room with its ceiling board. *(2 marks)*

28. A cyclist left Town **A** at **7:30am** travelling at a speed of **20km/h** for **2hours** to Town **B**. He rested for **30minutes** and resumed the journey travelling at a steady speed of **30km/h** and reached Town **C** after **2** hours.

a) How far is Town **A** from Town **C**? *(3 marks)*

b) If the cyclist left Town **C** after resting for an hour and decided to return to Town **A** at a steady speed of **50km/h**, find his arrival time back to Town **A**.

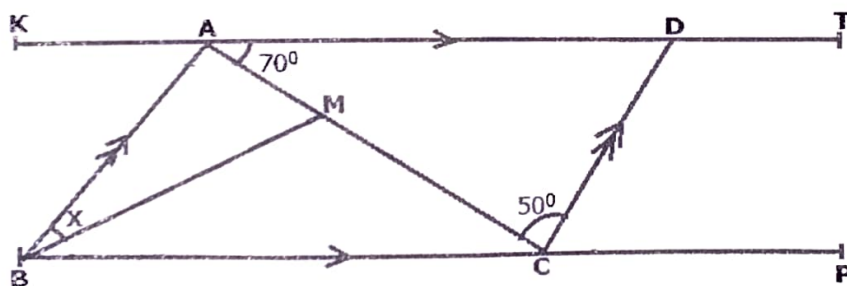
(2 marks)

29. a) Using a dial, work out $2 \times 3 = \underline{\hspace{2cm}}$ (Mod 7).

(2 mark)

b) In a certain Country, presidential campaigns started on Wednesday **10th** March and concluded on **13th** September the same year. On which day of the week did the campaigns end? (3 marks)

30. In the diagram below, line **KT** is parallel to **BP** and line **BA** is parallel to line **CD**. Angle **DAC** = 70° , angle **DCA = 50° and angle **MBC** is twice angle **ABM**.**



a) Find the value of **x**.

(3 marks)

b) Calculate the size of angle **BMC**.

(2 marks)

31. In a school library, **40%** of the books are for English, **20%** are for Maths, $\frac{1}{4}$ of the remainder are for Science and the rest are for Social Studies.

a) Find the fraction of the books for Social Studies. (2 marks)

b) Given that $\frac{2}{3}$ of the science books and $\frac{1}{3}$ of the social studies books are P7 books, calculate the total number of books in the school library if there are **80** P.7 Science and Social Studies books. (3 marks)

32. In a sequence of five numbers, the interval between each number is **6**. If the sum of the numbers is **100**, find the least number. (4 marks)

THE END