NEXT EXAMINATIONS BOARD

PRE-PLE SET 5 (CHEETAH)

2026

MATHEMATICS

Total Marks scored	

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

District ID No.

Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two Sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **13 printed** pages.
3. Answer **all** questions. **All** working for both Sections **A** and **B** must be shown in the spaces provided.
4. **All** working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.
5. No **Calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks**.
7. Do not fill anything in the table indicated **"FOR EXAMINERS' USE ONLY"** and in the boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN. NO.	**MARKS**	**EXR'S NO.**
1 – 5		
6 – 10		
11 – 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

SECTION A: (40 Marks)

1. Work out: 2 x 4 using repeated addition.

2. Simplify: $3r - 2(r + 1)$

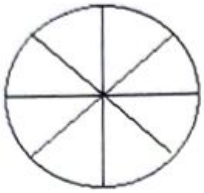
3. Write XLIX in words.

4. Given that set R has 4 elements. Find the number of proper subsets in set R

5. Opaso covered 72km in 120 minutes. Calculate his speed in metres per second.

6. Find the **value** of 6 in the number 3642.

7. Shade $\frac{2}{3}$ of the figure below.

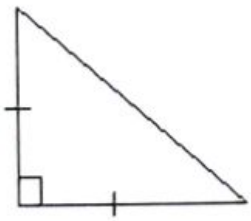


8. Change 23_{ten} to base four

9. A coin is tossed once. What is the probability that a head will show up?

10. Given that r = 3 and p = 5. Find the value of the reciprocal of $\frac{r}{p}$.

11. How many lines of folding symmetry does the figure below have?



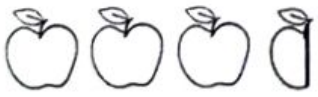
12. Today is Friday. What day of the week will it be after 23 days?

13. With the help of a ruler, a pencil and a pair of compasses only, construct an angle of 45^0 in the space provided below.

14. The LCM of two numbers is 120 and their GCF is 10. If the first number is 40, find the second number.

15. Five girls can take 12 days to do a piece of work. How much longer will 3 girls take to do the same piece of work?

16. If  represents 10 apples, how many apples can be represented by



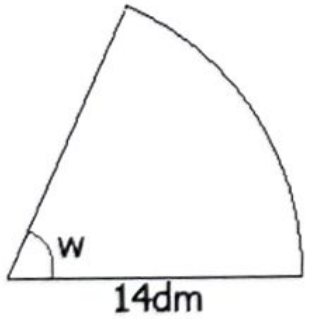
17. Find number that has been expanded to give;

$(5 \times 10^3) + (3 \times 10^1) + (6 \times 10^0)$?

18. Express 1.777... as a common fraction in its simplified form.

19. Solve for y: $2(h - 1) = 32$.

20. The distance around the sector below is 39dm. Find the value of w.



SECTION B: (60 marks)

21. The two consecutive even numbers are $4t - 8$ and $3t - 1$.

a) Find the value of t. (3 marks)

b) Write the first number in words. (2 marks)

22. At TMR Primary School, two bells for lower and upper primary ring at the intervals of 30 minutes and 40 minutes respectively.

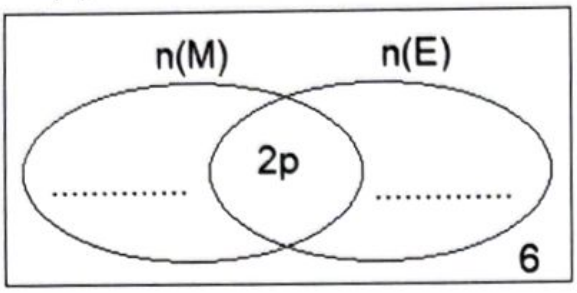
a) After how long will the two bells take to ring together again? (3 marks)

b) If they ring at 11: 30 am, at what time will they ring together again? (2 marks)

23. In a class of 55 pupils, 21 like Mathematics (M) only, 18 like English (E) only, 2p like both subjects while 6 pupils do not like any of the two subjects.

a) Complete the Venn diagram below. (2 Marks)

$n(\varepsilon) = 55$



b) Find the number of pupils who like Mathematics. (3 Marks)

24. In a village meeting, the ratio of men to women to children was 3:7:5 respectively. $\frac{1}{4}$ of the children were girls and 50% of the men were married. If there were 15 more boys than girls in the meeting. How many women were in the meeting (3 marks)

25. a) Using a ruler, a pencil and a pair of compasses only, construct a triangle ABD where AB = 6cm, BAD = 120^0 and AD = 5cm. (4 Marks)

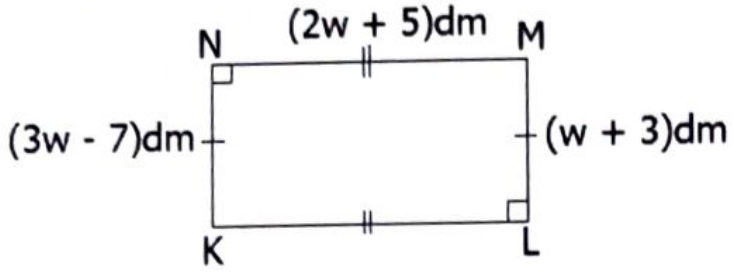
b) Measure the length of line BD = ... (1 Mark)

26. a) Add: 231 four + 121 four. (2 marks)

b) Show 314five on the abacus below. (3 marks)



27. Study the figure below and use it to answer the questions that follow.



a) Find the value of w. (3 Marks)

b) Workout the area of the figure above. (3 Marks)

28. Okaare went to the market and bought the items as shown in the table below.

Item	Quantity	Unit price	Total cost
Sugar	2kg	Sh. 3,500	Sh. .....
Meat	.....kg	Sh. 8,000	Sh. 24,000
Milk	$2\frac{1}{2}$ litres	Sh.	Sh. .....
Bread	4 loaves	Sh.	Sh. 8,000
	Total expenditure		Sh. 46,500

a) Complete the table. (5 marks)

b) If he went with sh. 50,000, find his change. (1 mark)

29. a) Find the value of $2x^2 - 3$ if $x = y = 3$ (2 Marks)

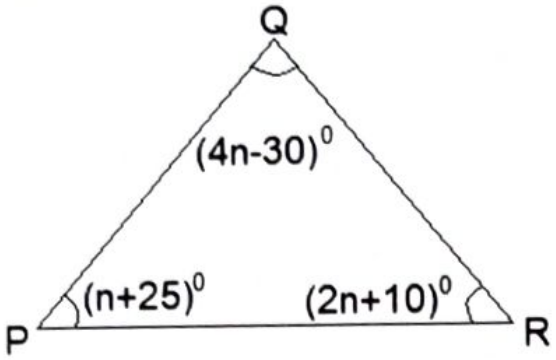
b) Nandutu is two times as old as Khainza. In 8 years' time, the ratio of Nandutu's age to Khainza's age will be 5:8 respectively. How old is Nandutu now? (2 Marks)

30. A motorist moved from town R to town T at 65km/hr for 2hours. He rested at town T for 30minutes and later continued to town P at a speed of 70km/hr for $2\frac{1}{2}$hours.

a) Find the distance between town R and town T. (2 marks)

b) Calculate the motorist's average speed for the whole journey. (3 marks)

31. The figure below is a triangle PQR. Use it to answer the questions that follow.



a) Find the value of n. (3 Marks)

b) Calculate the size of angle PQR. (2 Marks)

32. The expenditure of a man is shown in the table below

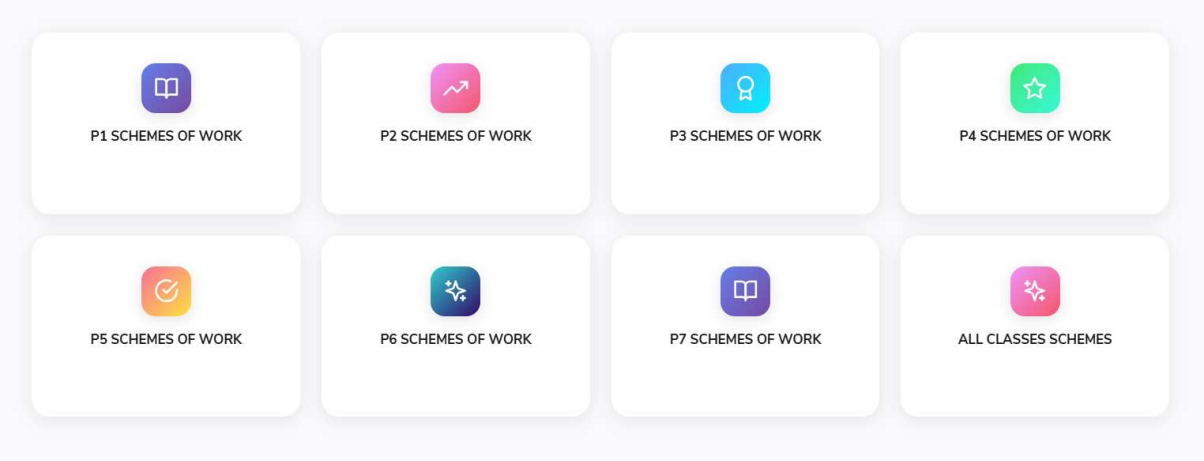
Food	rent	fees	others
20%	15%	k %	40%

a) Find the value of k (3 marks)

b) Draw a pie chart of radius 4cm to represent the information above. (3 marks)

END

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