NEXT EXAMINATIONS BOARD

PRE-PLE SET 16 (BEAR)

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 **11 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: (*02 marks each*)

1. Work out: 8.7 - 3.2

2. Find the number that has been expanded to give;
   $(7x10^4) + (4x10^2) + (8x10^0)$

3. Given that set M={all prime numbers between 30 and 45}, find n(M)

4. Work out: $^{-}4 + ^{-}3 - ^{-}2$

5. Tesla is five times as old as Lucy. The difference in their ages is 36years. Find Tesla's age.

6. Using a pair of compasses, a pair and a ruler only, construct an angle of 135^0 in the space provided below.

7. Find the perimeter of a square whose area is $1.96m^2$

8. Write the next number in the sequence;

   1, 8, 27, 64, _____

9. A cylindrical tank whose volume is $3080cm^3$ has its base area of $154cm^2$. Find its height. (use $= \frac{22}{7}$)

10. Given that a=c=5 and b=4a, find the value of 3c +3b

11. Find the number of elements in a set with 63 proper subsets.

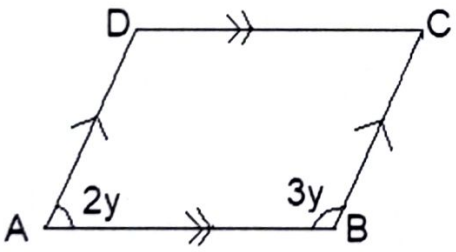
12. A motorist covered a distance of 180km at a speed of 80km/hr. Find the time taken to complete that distance.

17. List all the factors of 24

18. Alex is thrice as old as Pius and pius $(\frac{5k}{6})$ years. Determine the first four possible ages of Alex.

19. Write the fraction equivalent to $\frac{3}{8}$

20. Find the size of angle BCD in degrees.

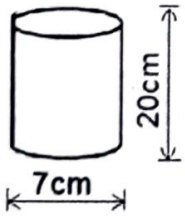


23. Annet went to market and bought the following items:
4 kg of rice at sh.3,500 per kg.
$1\frac{1}{2}$ kg of beans at sh.2,000 per **half** kg.
8 packets of gorillos at sh.500 each packet.

a) Calculate her total expenditure. ***(04 marks)***

b) If she was given a discount of 5%, find the amount of money Annet paid. ***(02 marks)***

24. The diagram below represents a glass which a lady uses to sell juice. If the lady sold 23.1 litres of juice. Find how many such glasses of juice were sold that day. ($\pi = \frac{22}{7}$) ***(04 marks)***



25. The interior angle of a regular polygon is 100^0 more than its exterior angle.

a) Find the number of sides. (***03 marks***)

b) Calculate its interior angle sum. (***02 marks***)

26. The number of shirts, jeans and dresses in a shop are in the ratio of 4:3:8 respectively. There are 75 more dresses than jeans;

a) Find the total number of clothes in that shop. ***(03 marks)***

b) If each shirt costs sh.37,500 ,find the amount got from all the shirts. ***(02 marks)***

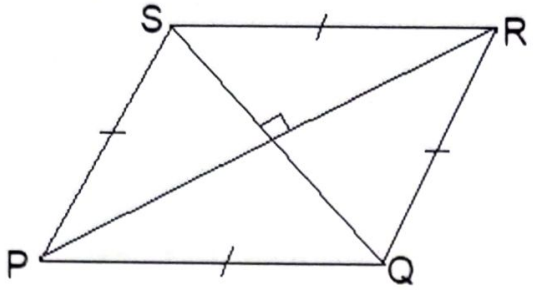
27. Four teams Arsenal, Chelsea, Mancity and Liverpool scored 40goals, 35goals, 60goals and 45goals respectively;

a) Using a radius of 4cm, draw an accurate pie-chart to represent the four teams. **(05 marks)**

28. a) Work out; $\frac{0.12 \times 0.18}{0.6 + 0.3}$ ***(03marks)***

b) Find the sum of the value of 5 and value of 8 in the number 52.184 ***(02marks)***

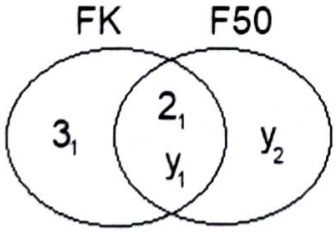
29. The diagram below shows a rhombus PQRS whose perimeter is 52cm. Diagonal PR = 24cm .



a) Find the length of diagonal QS. ***(03marks)***

b) Calculate the area of the rhombus. ***(02marks)***

30. Study the Venn diagram below and answer the questions that follow;



a) Find the value of y. ***(02marks)***

b) Find the value of k. ***(02marks)***

c) Find the LCM of Fk and F50. ***(02marks)***

31. A motorist used 3hours at a speed of 85km/hr to travel from town D to town E. He rested for 30 minutes and then continued to town F at a speed of 90km/hr for $2\frac{1}{2}$hours.

a) Find the total distance from town D to town F. ***(03marks)***

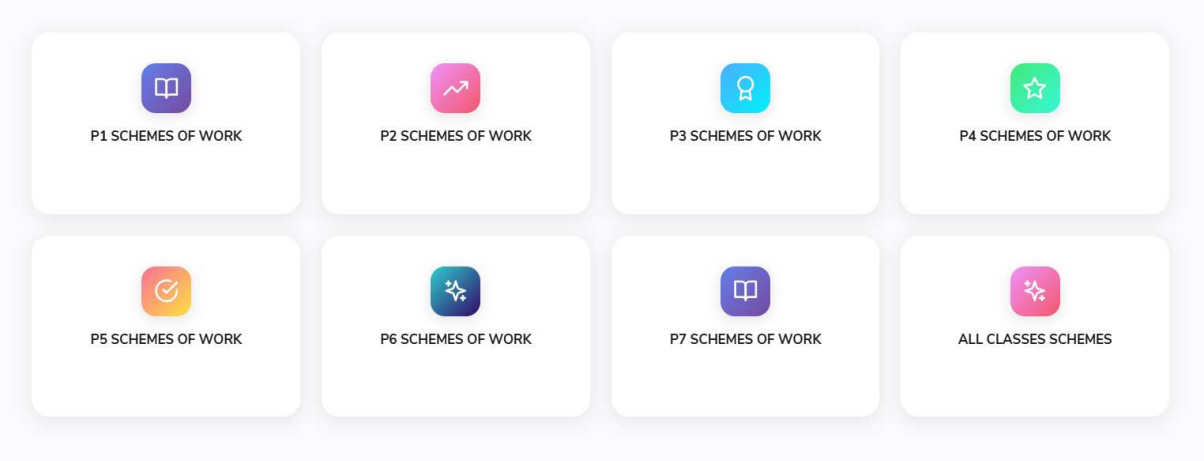
b) Calculate his average speed for the whole journey. ***(02marks)***

32. Tom and Paul rode their motorcycles from the same town A. Tom drove 72km eastwards to town B and Paul rode 45km to town C on a bearing of 150^0. Using a scale of 1cm to represent 9km, draw an accurate diagram to show the three towns. ***(04marks)***

b) Find the bearing of town C from town B. ***(01mark)***

END

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