THE - NEXA EXAMINATIONS BOARD (NEB)

Quality Assessment for Every Learner

Total Mark Scored	

PRE PLE-SET 1/5 2026

MATHEMATICS

Time Allowed: 2hours 30minutes

Random No.						Personal No.		

Candidate's Name: .....

Candidate's Signature: .....

School Name: .....

Read the following instructions carefully:

1. **Do not** write your **district name** anywhere on this paper. This paper is made up of **two** Sections: **A** and **B**. This paper has **12 printed pages.**
2. Section **A** has **20** questions **40 marks** and Section **B** has **12** questions **60 marks.**
3. Attempt all questions. All answers to both sections **A** and **B must** be written in the spaces provided.
4. All answers **must** be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will **not** be marked.
5. Crossing out of answers and the handwriting that cannot be read will lead to loss of marks.
6. **Do not** fill anything in the table indicated for **"EXAMINERS' USE ONLY".**

FOR EXAMINERS' USE ONLY		
QN. NO.	**MARKS**	**EXR'S NO.**
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
TOTAL		

Section A: (40 marks)

Each question carries 2 marks

6. Fin

1. Multiply : 3 x 9 using repeated addition

2. Given that **set W** = $\varnothing$, how many subsets are in set **W?**

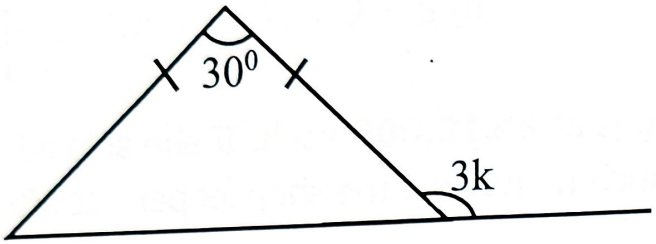
3. Hope packed a **60kg** bag of posho into **750g** packets. Find the number of such packets of **750g** Hope obtained from a bag of posho

4. A square flower garden has an area of **6.25m²**. Find the size of each side of the garden.

5. Write the number that has been expressed in standard form as **2.59 x 10^3** in Roman numerals.

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7. Find the value of k in the figure below



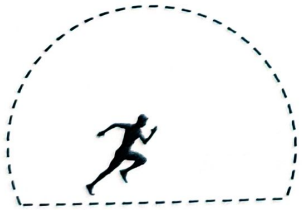
8. Find the minimum number of boys that can share **18** or **24** sweet leaving **5** sweets as a remainder

9. The median of a + 2, 2a + 3 and 3a + 4 is 9. Find the value of a.

10. A school bursar withdrew a bundle of 100 notes from the bank numbered consecutively. Given that the last note was numbered **MT649352**, find the num on the first note.

11. A shop keeper bought three trays of eggs at **sh.10,000** each. If she sold all the eggs and got a profit of $\mathbf{12\frac{1}{2}\%}$. How much money did the shopkeeper get after the sale of eggs?

12. An athlete run round a certain field twice and covered a distance of **72m** as shown below. Determine the radius of the field.



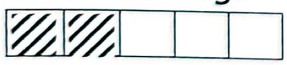
13. Express $\mathbf{0.7272}$ ... ... as fraction in its simplest form

14. Kenny covered 144km in 2 hours. Express his speed in metres per second.

15. Solve for **x** in: $4x + 2 = 5 \pmod 7$

16. If k = 0.8, m = 5 and n = 4, workout the value of $\frac{3mn}{k}$

17. The shaded region below represents the distance in kilometres Lionel covered while walking on a journey. If he covered 24km running, what distance did he cover walking?



18. Calculate the total surface area of the vertical walls of a four walled room that measures 8m in length, 6m in width and 10m in height.

19. A minute hand of a clock face made a complete turn to cover **44cm**. How long is the minute hand?

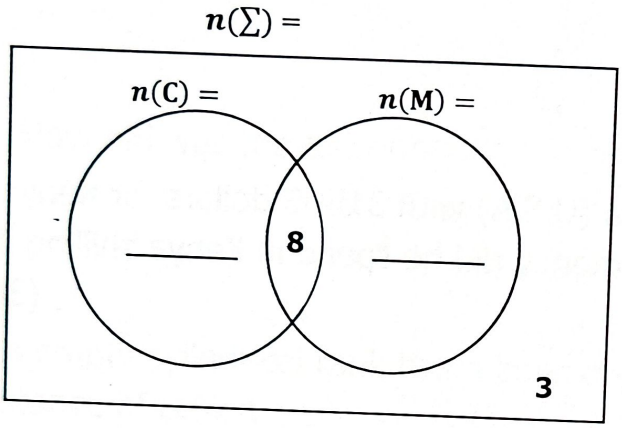
20. Without using a protractor, construct the angle of **105^0**.

SECTION B: 60 MARKS

Marks for each question are indicated in the brackets

21. At a birthday party, **(3x + 3)** guests were served with chicken (C) only, **(x + 5)** guests were served with meat (M) only, **8** guests were served with both chicken and meat while **3** guests were not served with any of the two dishes. If the number of guests served with chicken only was twice as much as those served with meat only,

(a) Complete the table below. (2marks)



(b) Find the value of **x**. (2marks)

(c) How many guests attended the party? (1marks)

22. On his 4-day trip, Jonathan drove 2 more km every day and covered 72km at the end of the trip. If he covered $x$km on the third day,

(a) Find the product of kilometers he covered on the third and fourth days respectively. (5marks)

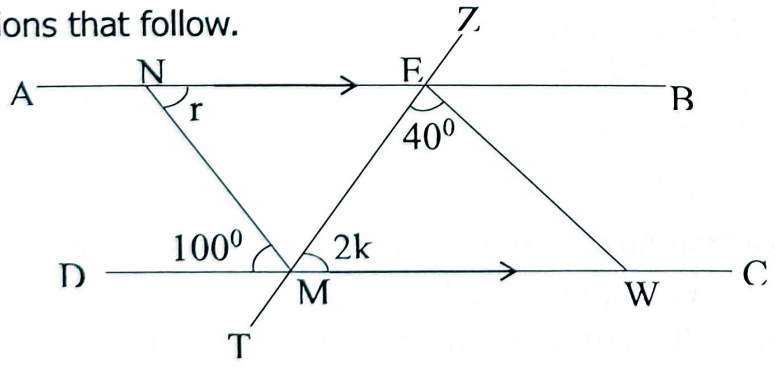
23. Study the exchange rates below and answer the questions that follow

Currency	Buying Rate	Selling Rate
3 US Dollar ($)	Ugsh 10800	Ugsh 11400
2 Kenya shilling	Ugsh 64	Ugsh 70

(a) A business man travelled to Kenya with Ugsh 700,000 and bought a television set. How much Kenya shilling did he pay? (2marks)

(b) Gideon left United States of America (U.S.A) with 315US dollars for Kenya where he bought some items. How much money did he spend in Kenya shilling if he used all the money? (3marks)

24. In the figure below line AB is parallel to line DC, angle DMN = 100^0, angle MEW = 40^0, while angle MWE is twice angle MEW. Study it carefully and answer the questions that follow.



a) Find the value of **k** (3marks)

b) Find the size of angle **r**

(2marks)

25. Given that 5 years ago Mr. Daniel was thrice the age of his daughter Maria, find how old the daughter is now if the sum of their present ages is 46 years

(3 marks)

(a) How old was the father then? (2 mark)

26. An empty cylindrical tank has a base area of $154m^2$. The tank was rolled through a distance of 8.8km.

(a) How many revolutions did the tank make to cover the whole distance?

(5 marks)

27. The frequency table below shows the marks scored by some pupils in a mathematics test

Marks Scored	82	74	60	85
Number of Pupils	3	1	P	4

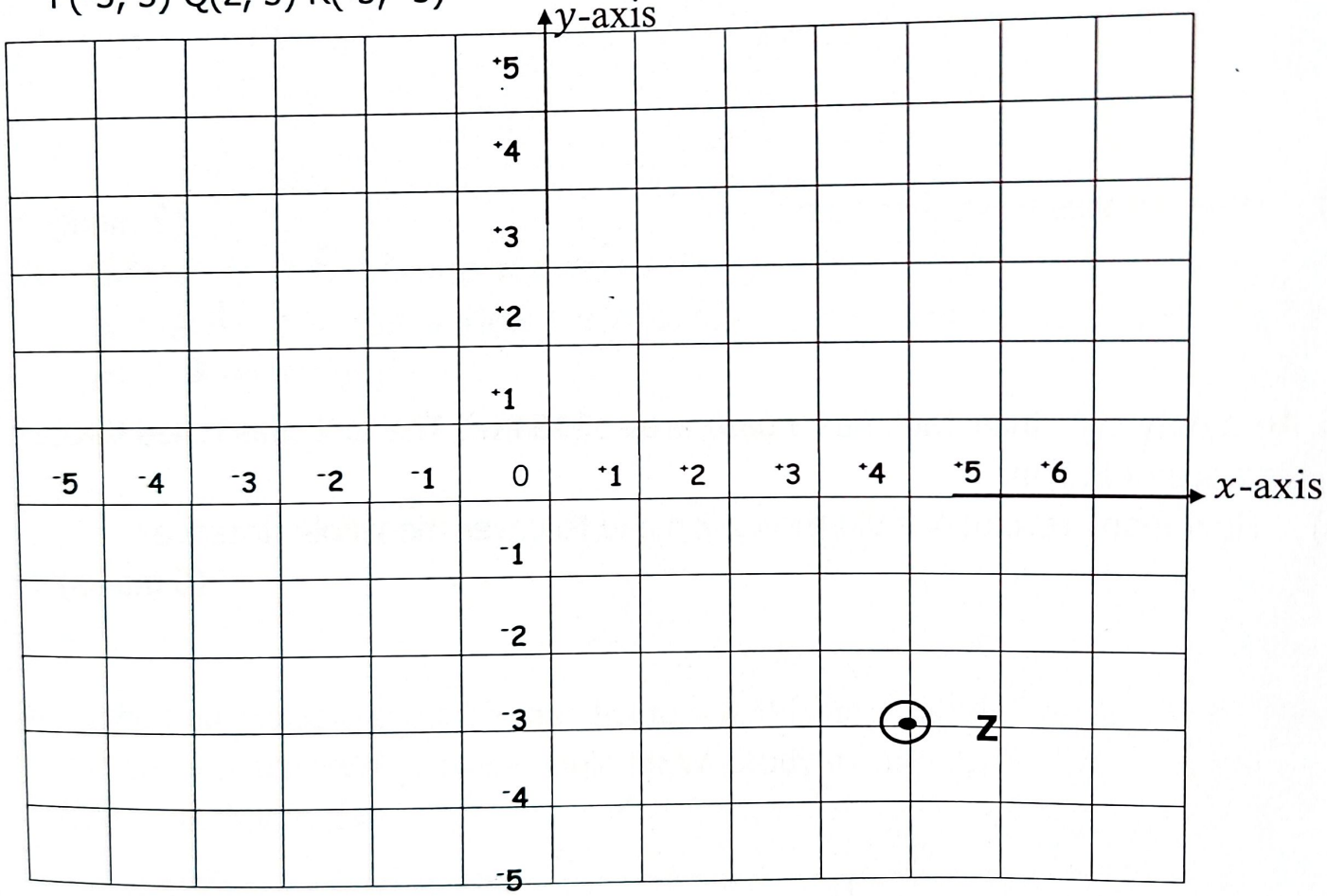
(a) Find the value of **P** if the mean mark was **78.** (3marks)

(1mark)

(b) How many pupils did the test?

28. Plot the following co-ordinates on the grid below.

P(-3, 3) Q(2, 3) R(-5, -3) (3marks)



a) Write down the coordinates for point **Z**(1mark)

.....

b) Join and name the polygon formed.(1mark)

.....

mark)

29. In a test of **20** questions given by Teacher, he awarded **5** marks for every correct response given and deducted **2** marks for every wrong response given.

(a) If Mary got 44 marks, how many questions did she fail? (4 marks)

30. A motorist left town **M** at 7:30am driving through a distance of 120km at a speed of 60km for every one hour to town **N**. He rested for half an hour at town **N** and continued for another 150km to town **P** where he reached at 11:30am. If he spent 180 minutes at town **P** and then drove back from town **P** directly through town **N** to town **M** driving at a steady speed of 90km for every one hour

(a) At what speed was he moving from town **N** to town **P**? (2marks)

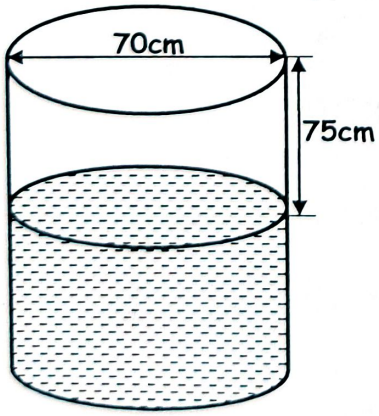
(b) Calculate his average speed for whole journey. (4marks)

31. Using a pair of compasses, a ruler and a sharp pencil construct only, the quadrilateral ABCD where angle A = 135^0, line AB = 6.5cm and line AD = 5cm. ***Drop a perpendicular line from D to meet line AB at point K***

(4 marks)

(c) Calculate the area of the figure formed. (2 marks)

32. The cylindrical tank below is $\frac{4}{7}$ full of water. How many litres are in the tank?

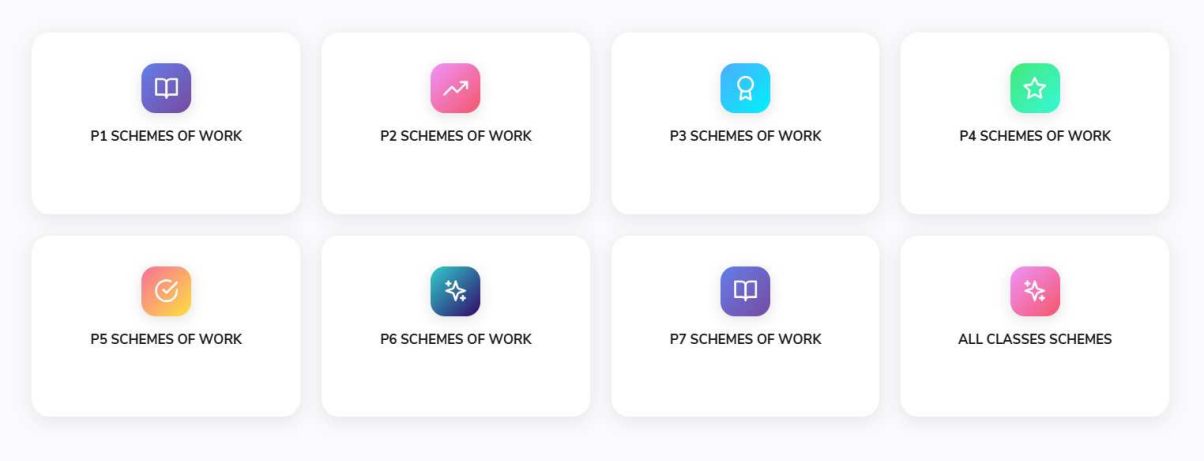


(5marks)

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END

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