MEVID EXAMINATIONS BOARD

PLE PREPARATION SERIES($\frac{2}{3}$)

2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						*Personal No.*		

Candidate's Name……..

Candidate's signature:……

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

1. This paper has two sections: **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions.

2. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in the spaces provided.

3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.

4. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of mark**

5. Do not fill anything in the table indicated: **"for examiner's use only"** and boxes inside the question paper.

FOR EXAMINER'S USEONLY

Qn. No	MARK	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
Questions 1 to 20 carry 2 marks each

1. Work out: 3cows + 4cows + a cow – 5cows

2. Arrange 0.3, 0.07, 1.2 and 0.14 beginning with the biggest.

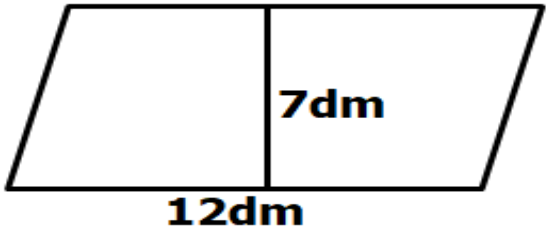
3. Given that set H = {a, x, m, d} and H U G = {b, r, a, w, m, e, f }
   Find n(G)

4. Change 30m/s to km/h.

5. Work out the supplement of 2y - 55^0

6. The temperature of the day rose by $4c^0$ from -$11c^0$ and later dropped by $6c^0$. Find the new temperature of the day.

7. Calculate the area of the figure below.



8. The mean age of three boys is 15years. When twin brothers join the group, the mean of the boys become 13 years. How old are the twins?

9. Work out: 7 + 11 x 3.

10. Alexander sold a pair of shoes at sh. 50000 making a profit of sh. 10000, calculate his percentage profit.

11. Convert 80000 cm^2 to m^2

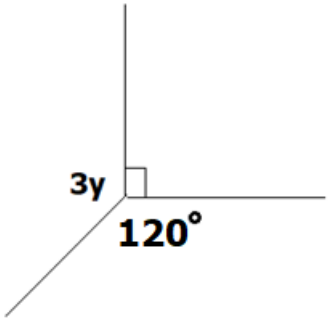
12. Write the missing number in the sequence below;
    20, 24, 30, 38, 47, _____

13. Using a ruler, a pencil and a pair of compasses, construct the supplement of 75^0

14. Four pairs of trousers can take 45 minutes to dry under direct sunshine. How long will 18 similar pairs of trousers take to dry under the same direct sunshine?

15. Expand 709.25 using place values.

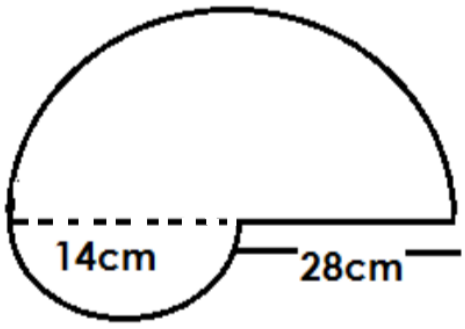
16. On the figure below, find the value of y.



17. With the help of common factor property; work out (127 ÷ 0.5) – (27 ÷ 0.5)

18. Find the number expressed in standard form below;
3.04 x 10^{-4}

19. Find the total distance round the figure below. (Take $\pi = \frac{22}{7}$)



20. Subtract: 3 – 5 = _____(finite 7) using a dial.

SECTION B

21.a) Find the number whose expanded form is;

$(7 \times 10^{-1}) + (8 \times 10^{3}) + (3 \times 10^{1})$.

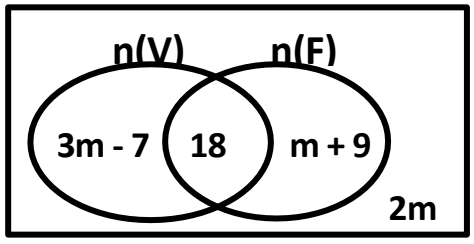
(2marks)

b) Round off the number above to the nearest whole number.

(2marks)

c) What is the place value of 8 in the above number? **(1mark)**

22. The Venn diagram below shows traders who sell vegetables (V), those who sell fruits(F) and the traders that sell other food stuffs in Nakasero market.



a) Given that on a certain Saturday, 10 traders that sell vegetables did not come to the market leaving 64 vegetables traders present, find the value of m.

(3marks)

b) How many traders don't sell fruits? **(2marks)**

23.a) John planted trees 20m apart in a straight line to separate his land from that of his neighbour.

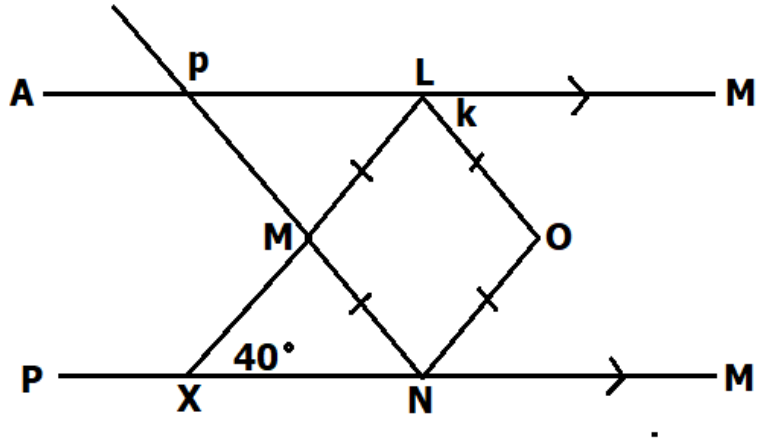
a) How many trees did he plant to cover a distance of 100m less than 1km.

(3marks)

b) If each tree cost sh. 7000, how much money did he spend on all the trees?

(2marks)

24. On the figure below, **AM** is parallel to **PM**. Angle **LXN** $= 40^0$ **.** LMNO is a square. Use it to answer the questions about it.



a) Find the size of the angle marked;

(i) k (ii) p **(3marks)**

(2marks)

25. Using a ruler, a pencil and a pair of compasses, construct a rhombus NCDM where MC = 6cm and ND = 8cm. **(4marks)**

b) Measure the length of NC. _____ **(1mark)**

26. In a class, the percentage of boys is 14% less than that of the girls. There are 28 more girls than boys in this class. How many boys are in the class?

(5marks)

27. The table below shows marks scored by pupils during end of year exams.

Marks	80	75	90	65	70
No. of pupils	4	2	2	1	3

a) How many pupils sat the test and scored above 70?

(1mark)

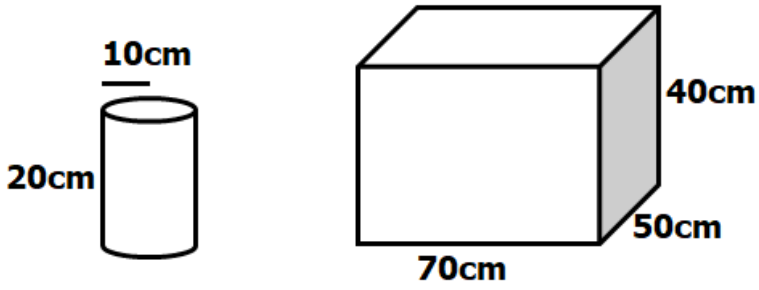
b) What was the median mark? **(2marks)**

c) Find the average mark of pupils that scored 90s and 70s. **(2marks)**

28. a) Solve: $\frac{2}{6}k^2 = 12$ **(3marks)**

b) Subtract 2(m + 4) from 3(m + 6) **(2marks)**

29. Cylindrical tins of blue band of radius 10cm and height 20cm were packed in a rectangular box measuring 70cm by 50cm by 40cm as shown below.



a) How many tins were packed on the first layer? **(2marks)**

b) Calculate the volume of the space left in the box after packing.

(Take $\pi = 3.14$)

(3marks)

30. Alice borrowed a sum of sh. 400,000 from a money lender that charges a simple interest rate of 20% per month.

a) Calculate the simple interest she paid after 9 months. **(3marks)**

b) How much money did the money lender get from Alice altogether?

(2marks)

31. The interior and exterior angles of a regular polygon are in the ratio of 3 : 1 respectively.

a) Name the polygon **(3marks)**

b) Calculate its interior angle sum.

(2marks)

32. A taxi driver left town A moving at a speed of 80km/h and arrived in town X at 10:30am. He rested for 30 minutes and continued to town P at a speed of 80km/h for $2\frac{1}{2}$ covering a distance twice as much as the distance he covered from town A to town X.

a) At what time did the driver leave town A?

(4marks)

b) At what time did the driver reach town P?

(2marks)