SEMBABULE DISTRICT EXAMINATIONS BOARD
P.7 MOCK EXAMINATION 2025
MATHEMATICS
Time Allowed: 2 hours: 30 minutes

Candidate's Index No.

Candidate's Name:..

Candidate's Signature:...

School:..

District:..

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

Read the following instructions carefully

1. Attempt all questions in BOTH sections **A** and **B**

2. The paper has 2 sections **A** and **B**.

3. Section A has 20 questions (40 mrks) and section B has 12 questions (60 mrks)

4. All the working for both sections **A** and **B** must be shown in the spaces provided.

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Turn Over

1	Work out: $42 \div 3$	2.	Write in words: 42,019

3.	Set K has 32 subjects. How many members are in set K?	4.	Shade 0.25 of the diagram below.
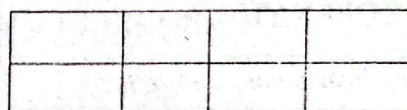
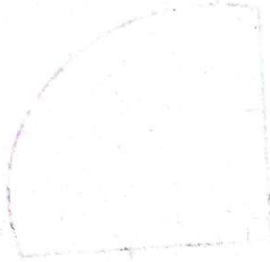| 5.	Simplify: $7m - (3 + 2m)$	6.	Find the direction of K from L in the diagram below:

1
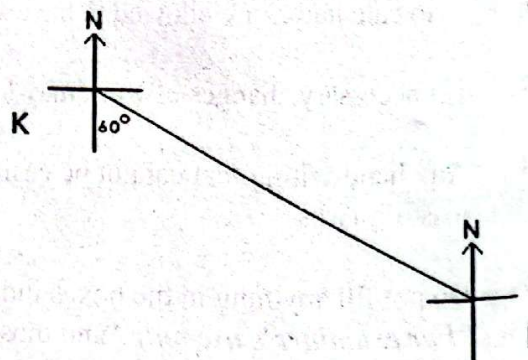
7.	The total distance round the figure below is 50m, find r.	8.	Find the smaller number of sweets when shared by either 18 girls or 30 boys leaves 4 as a remainder.
9.	A meeting started at 9:40am and ended at 1:00pm. How long did it last?	10.	A trader made a loss of sh. 7000 after selling an item at sh. 26000. Find the cost price.
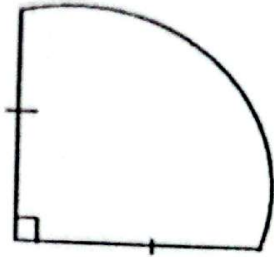
11. Workout: $^+5 - {}^+7$	12. Find the 9th equivalent fraction to $^3/_5$.
13. Find the range of the next two numbers in the sequence: 4,6,8,9, _____ , _____	14. Anne's bag weighs $1^3/_4$kg. Express this weight in grams.
15. If $2m3_{four} = 124_{five}$, find the digit represented by m.	16. Find the number that is represented in standard form to give: 7.29×10^{-2}.

17 John had $1\frac{1}{2}$ of his sugar cane. he gave $\frac{3}{4}$ of it to his friend. What fraction did he remain with?

18 A car moves at a speed of 120km/h in 40 minutes. Find the distance he covered.

19 Workout the square root of 4.41

20 The cost of a book is three quarters that of a pen. If the cost of a book and a pen is sh. 1400. Find the cost of a pen.

21. a) Simplify:

$$\frac{P^4 \times p^3}{P^5}$$

b) Find the number that has been expanded below

$$(3 \times 10^3) + (5 \times 10^1) + (7 \times 10^0)$$

22. The table below shows the buying and selling rates of different currencies in a bank of Uganda. Use it to answer the questions that follow.

Currency	Buying (Ugsh)	Selling (Ugsh)
1 US dollar ($)	3600	3650
1 Kenya shilling (ksh)	29	30
1 Rwanda Franc (RF)	3.5	4

23. At a leaver's party, candidates were served with Mirinda (m) and fanta (f) as shown in the diagram below.

(ξ)

n(F)   n(M)

Y+7   Y·   27

Y−5
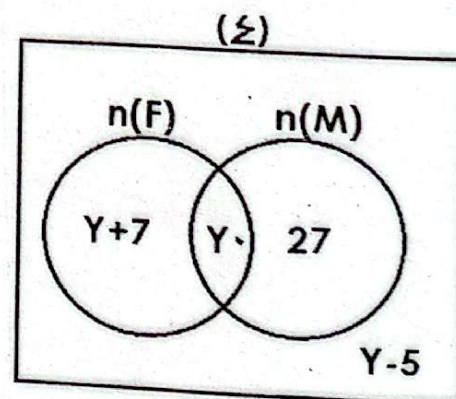
a) A tourist entered the bank with 40,000 Rwands francs and 14,000 Kenya shillings. How much in Uganda shillings would he receive from the bank?

b) A missionary had 600 Us dollars to exchange. How much would he get in Rwanda Francs?

a) If 20 candidates were not served with mirinda at all, find y.

b) Find the number of candidates in the whole class.

c) What is the probability of choosing a candidate who drunk none of the drinks to open the dance

24. The sum of three consecutive even numbers is 78.

a) If the first number is p, find the value of p.

b) Find the product of the first and third numbers.

25. Muzeyi Mukene spends 40% of the salary on food, ¼ of the remainder on fees and the rest on rent.

a) Find the percentage spent on rent.

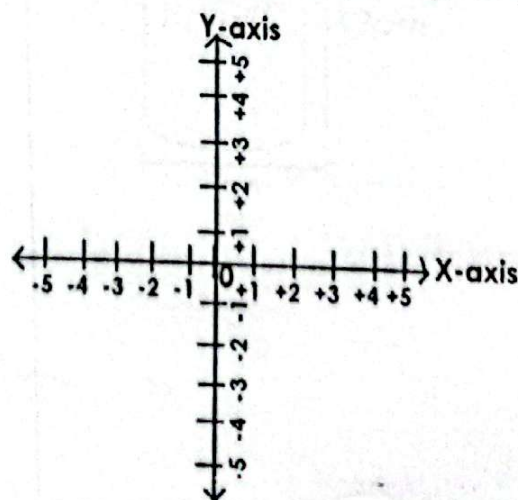b) If his total salary is sh. 120,000, how much money is spent on fees?

7

26. a) Using a ruler, a pencil and a pair of compasses only, construct a triangle DAF where line DF = 7.5cm, angle FDA = 120° and DA = 5cm

b) Drop a perpendicular from point A to meet line DF at K.

27. a) Solve the inequality;-

$$\frac{2}{3}k \le 4 + 2k$$

28. a) Plot the following cordinates on the graph below.

A (-2,2) , B (-2, -3), C (2, -3), D (4, 2)

Y-axis

.5 -4 -3 -2 -1 +1 +2 +3 +4 +5 X-axis

**b)** Write down the solution set for the above inequality.

b) Join A to B, B to C, C to D and D to A.

c) Name the geometric figure formed.

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9. A trader drove from home at a speed of 80km/h to the town for 2 hours 15 minutes. He spent 30 minutes at the MTN mobile centre on his way to withdraw some money. He then continued to go for shopping moving a distance of 60 km from the mobile centre for one hour.

a. How far is the home to the MTN mobile centre?

30. In the diagram below MN is parallel to QP, ABC is a triangle, angle TCN =50° and angle CBP = 130°. study it carefully and answer questions that follow.
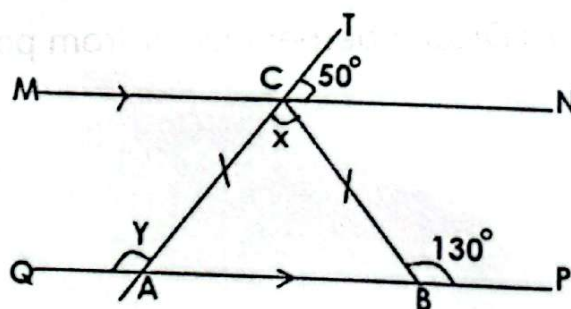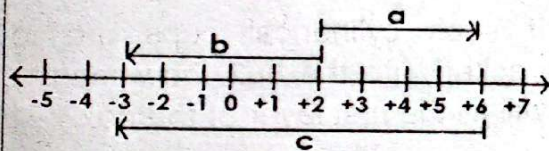

a. Find the size of angle x.

b. Find his average speed for the whole journey.

b. Workout the value of angle Y

31. Use the number line below to answer the questions about it.
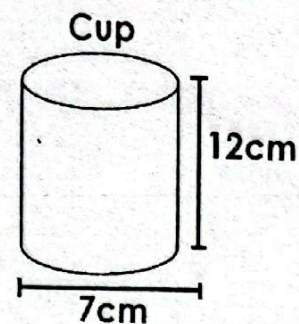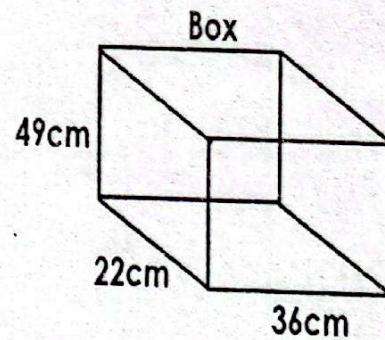

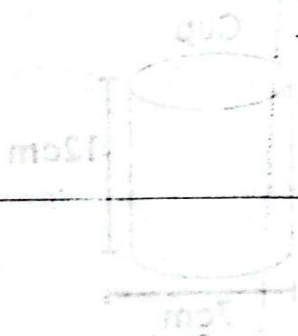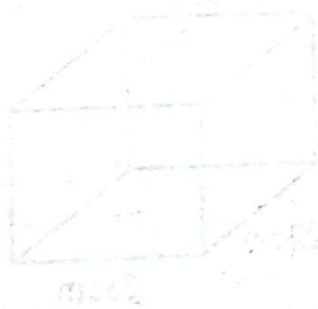a) Write down the integers represented by arrows

   i. a:

   ii. b:

   iii. c:

32. The diagrams below show a rectangular box and a cylindrical cup. study carefully and answer the questions that follow:

Box

Cup

b) Write the mathematical sentence shown on the number line.

a) Find the volume of the cylinder.

b) If such cylindrical cups are to be packed into the box, how many cups will fill the first layer of the box?

11

END

****GOOD LUCK ***

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