

DOKOLO DISTRICT EXAMINATIONS BOARD

PRIMARY LEAVING MOCK EXAMINATIONS 2025

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name:

.....

Candidate's Signature:

.....

School Name:

.....

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. The paper has **8 printed pages** altogether.
2. Answer **all** questions. **All** answers to both sections **A** and **B** must be written in spaces provided.
3. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any answer or work written in pencil other than drawings will **not** be marked.
4. **No calculators** are allowed in examination room.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss** of marks.
6. Do not fill anything in the table indicated and boxes inside the question paper.
"FOR EXAMINERS' USE ONLY"

FOR EXAMINER'S 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)

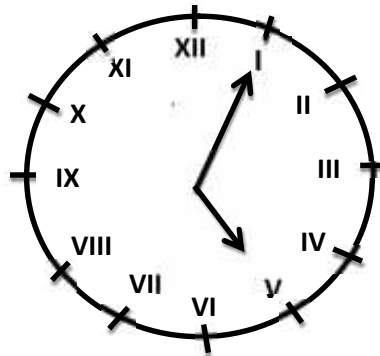
1. Subtract 11 from 103

2. Given that Set P={ Even numbers less than 12 } and Set Q={ Counting numbers up to 8 }.Find $n(P \cap Q)$

3.Find the next numbers in the sequence. 4,9,7,12,10,_____, _____

4. Today is Wednesday. What day of the week will it be 12 days after?

5. Study the diagram below and tell the afternoon time in Hindu Arabic Numerals.



6. Change $12\frac{1}{2}\%$ to fraction in its lowest term .

7. If a dice is tossed once, what is the probability that a number less than 4 will appear on top?

8. Convert 3.5 kg to grammes.

9.Mr. Mukene sold a goat at at Sh.15,000. He made a loss of Sh.3,000. How much did he buy it?

10. Solve $\frac{3}{4}h + 3 = 9$

11. Simplify $\frac{5}{1} - 1\frac{1}{2} + 2\frac{1}{4}$

12. Find the average of $4x + 1$, $5x$, and 14

13. The circumference of a circle is 44cm . Calculate its radius

14. A staff meeting which started at $9:40\text{ am}$ lasted for $3\frac{1}{2}$ hours. At what time did it end?

15. Using a pair of compass, ruler and pencil only. Construct an angle of 75°

16. Work out

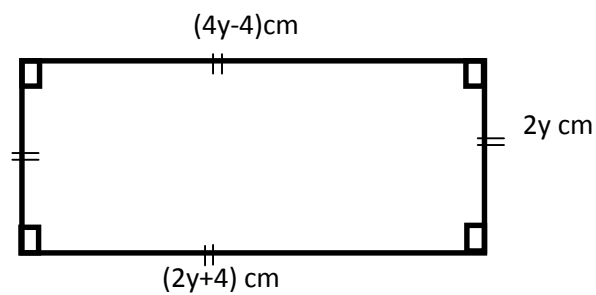
$$\begin{array}{r} 1001 \text{ two} \\ - 111 \text{ two} \\ \hline \\ \hline \end{array}$$

17. Find the number whose standard form is 3.8×10^{-3}

18. Okolobo has 1050 us dollar, how much can he exchange for Uganda Shillings. Given that 1 US dollar = UgSh 3500

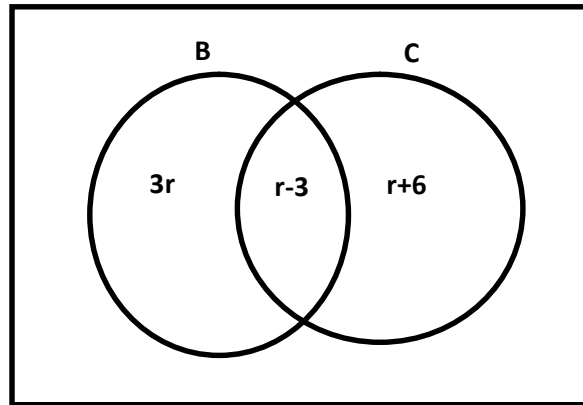
19. Work out $2-5 \equiv \dots \pmod{7}$ using dial method

20. Calculate the value of y in the figure below.



SECTION B (60 Marks)

21. At Amunamun village, some farmers grow Bananas (B) and others grow Cassava (C) as shown on the Venn diagram below.



(a) If 38 farmers grow only one crop, find r (2 marks)

(b) Find the total number of farmers who do not grow bananas. (1 mark)

(c) Calculate the total number of farmers in Amunamun village. (2 marks)

22.(a) Express 864.83 in scientific form (2 marks)

(b) Solve for y : $3^{3y} \times 3 = 81$ (3 marks)

23. Two taps Z and Y are connected to the tank. Tap Z takes 4 minutes to fill the tank while tap Y takes t minutes to empty the tank. If both taps take 12 minutes to fill the tank, how much time does tap Y take to empty the tank? (4 marks)

24. The sum of interior angles of a regular polygon is 1440° .

(a) How many sides has the polygon? (3 marks)

(b) Find the size of each exterior angle of the polygon. (2 marks)

25. The rate at which the bank buys and sells United State dollars and Kenya Shillings are given in the table below.

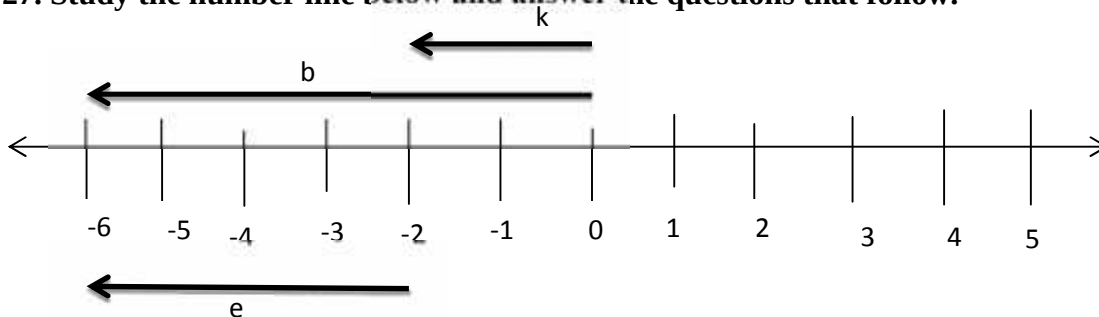
CURRENCY	BUYING	SELLING
1 US dollar	Sh.3500	Sh. 3600
1 Kenya Shillings	Sh. 30	Sh. 35

(a) If a tourist had 300 dollars And 500 Kenya shillings, how much money in Uganda shillings can he get? (3 marks)

(b) How much dollars will Brenda get for KSh. 48000 ? (3 marks)

26. A train takes 8 hours on the way to cover a journey at a steady speed of 45 Km/h but it takes only 4 hours to return through the same route. Calculate the average speed of the train for the whole journey. (5 marks)

27. Study the number line below and answer the questions that follow.



(a). Find the integers represented by ; (1 mark each)

b=.....

k=.....

e=.....

(b) Write the mathematical statement for the number line in (a) above. (1 mark)

28 .(a) Anna is 20 years younger than Jack. In 5 years time, jack will be twice as old as Anna. How old is Anna now ? (3 marks)

(b) Solve $\frac{2x+4}{5} = \frac{x+2}{2}$ (3 marks)

29. (a) Work out $\frac{0.2 \times 0.8}{1.2 \times 0.0}$ (3 marks)

(b) Simplify $1\frac{1}{6} \times 1\frac{1}{7} \div 1\frac{1}{2}$ (2 marks)

30. The teacher recorded the weight of some pupils as follow. Study the recorded data and use it to answer the questions that follow.

Weight in Kg	45	60	50	70
Number of pupils	2	P	4	1

(a) If the average weight is 54 kg, work out the value of p. (3 marks)

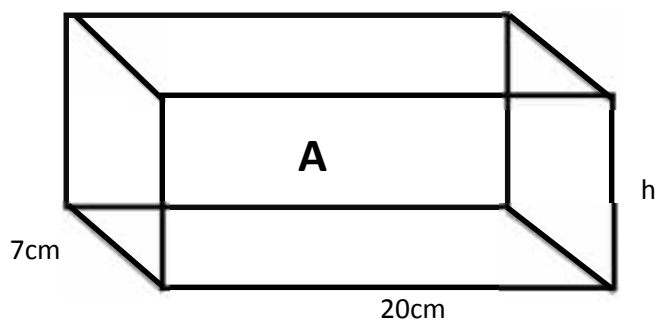
(b) Find the number of pupils whose marks were recorded. (1 mark)

(c) Work out the median of the weight recorded. (2 marks)

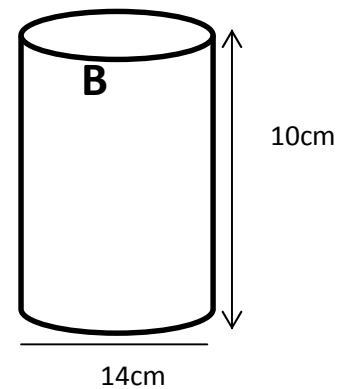
31.(a) Using a ruler, pencil and a pair of compass only. Construct a triangle MTN where angle NMT = 60° , angle NTM = 45° and MT = 5cm. (4 marks)

(b) Measure the length NM. (1 mark)

32.The volume of figure A is the same as the volume of figure B



(a) Calculate the value of h (2 marks)



(b) Work out the area of the figure B (Take $\pi = \frac{22}{7}$) (2 marks)

**THE END
GOOD LUCK.**