

# TARGET EXAMINATIONS BOARD

## PRE - MOCK ASSESSMENT - 2023

### PRIMARY SEVEN

### MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.						Personal No.		

Pupil's Name: .....

Pupil's Signature: .....

District ID No. 

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Read the following instructions carefully:

Do not write your school or District name anywhere on this paper.

Section A has 20 questions (40 marks)

Section B has 12 question (60 marks)

Attempt ALL questions.

Give answers to both sections A and B

Answers must be written in the spaces provided.

All answers **MUST** be written using blue black ball – point pen or ink. Diagrams could be drawn in pencil.

Necessary changes of work may lead to loss of marks.

Illegible handwriting that cannot easily be read

may lead to loss of marks.

Do not fill anything in the boxes indicated

as "examiner's use only".

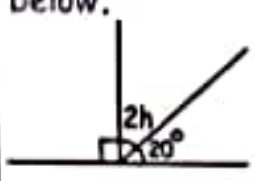
FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		



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P.7 Mathematics Pre – Mock Assessment III Term II – 2023

# SECTION A (40 Marks)

1. Multiply: $103 \times 3$	2. Write 39045 in words.
3. Solve: $y - 5 = 12$ .	4. Prime factorise 72 and write your answer in set notation.
5. Given that: $A \cup B = \{4, 5, 6, 7, 8, 9, 3\}$ , $A \cap B = \{6, 7\}$ and $B' = \{4, 5\}$ . List elements of set $B'$ .	6. Increase sh. 6000 in the ratio 5:2.
7. Find the value of $h$ in the diagram below. 	8. The average age of 10 boys is 12 years. What is the sum of their ages?

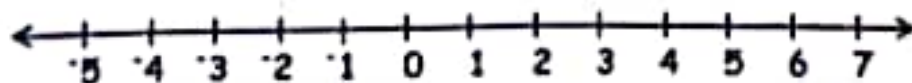
9. Find the value of 4 in the number 240736.

10. Workout:  $3\frac{1}{2} + 2\frac{1}{2}$

11. Simplify:  $\frac{b-3}{3} - \frac{b+1}{4}$

12. A motorist covered 64km in 40minutes. Calculate his speed in km/hr.

13. Workout:  $^*3 \times ^*2$  using a number line below.

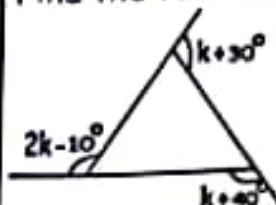


14. A trader bought a dozen of apples at sh. 4800. He later sold each apple at sh. 600. What profit did he get after selling all the apples?

15. Find the next number in the sequence.

1, 3, 6, 10, 15, 21, \_\_\_\_\_

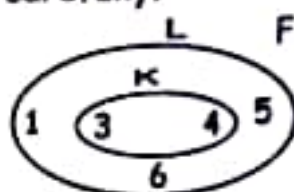
16. Find the value of  $k$  in degrees.



17. Change 30m/sec to km/hr.

18. Workout the range of the following integers:  $-3$ ,  $-4$ ,  $0$ ,  $-7$  and  $8$ .

19. Study the Venn diagram below carefully.



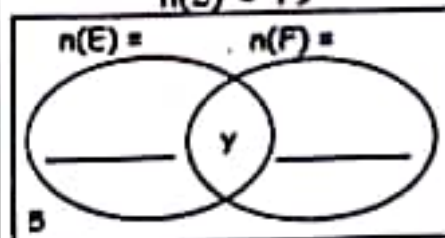
Find  $n(L \cap K)$

20. How many poles are needed for fencing fixed 30m apart along a straight road of 2.4km?

### SECTION B: (60 Marks)

21. In a meeting of 79 delegates, 39 of them speak French (F), 47 speak English (E),  $y$  speak both languages while 5 don't speak any of the two languages.

$$n(\Sigma) = 79$$



- (a) Use the above information to complete the Venn diagram. (2marks)

- (b) Find the value of  $y$ . (2marks)

- (c) What is the probability of picking at random a delegate who doesn't speak French? (2marks)



22. (a) Solve:  $3 - (y - 1) = 2(y + 5)$  (3marks)

(b) Romeo is 17 years old and Joan is 41 years old. How many years ago was Romeo a third as old as Joan? (3marks)

23. Below is exchange rates at a forex bureau.

1 US dollar (\$) = Ug sh. 3650.

1 pound sterling (£) = Ug sh. 4800.

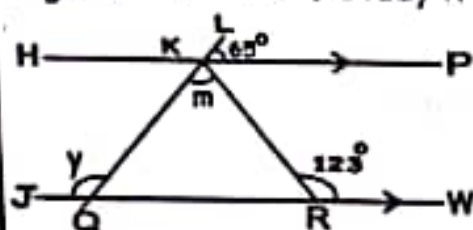
1 Kenya shilling (Ksh) = Ug sh. 36.

(a) Tom had Ug sh. 5,110,000. How many US dollars did he get? (2marks)

(b) A trader exchanged British pound sterling 1080 into Kenya shillings. How much money did the trader get? (3marks)

24. In a class of 60 pupils,  $\frac{2}{3}$  like football,  $\frac{3}{4}$  of the remainder like tennis and the rest like volleyball. How many pupils like volleyball? (4marks)

25. On the diagram below, HP is parallel to JW, KQR is a triangle, angle LKP =  $65^\circ$  and angle KRW =  $123^\circ$ . Study it carefully.



(a) Find the size of angle y.

(2marks)

(b) Work out the value of m in degrees.

(2marks)

26. The mean age of Peter, Zahara, Yusuf and Mary is 26 years. If Peter is 40 years and Zahara is 36 years, how old is Mary who is 4 years younger than Yusuf? (4marks)

27. The timetable below shows how a plane operates from Entebbe air port to London. Study it carefully.

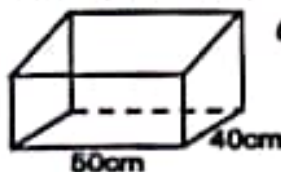
Airport	Arrival	Departure
Entebbe		00:15 hours
Nairobi	01:00 hours	01:30 hours
Dubai	05:30 hours	06:00 hours
London	08:00 hours	

- (a) How long does the flight from Nairobi to Dubai take? (2marks)

- (b) Express the departure time from Entebbe in a 12 hour clock system. (1mark)

- (c) If a plane moves at a constant speed of 395 km/hr, find the distance from Dubai to London. (3marks)

28. The tank below holds 60 litres of water when full. Study it carefully. Calculate the height of the tank. (4marks)



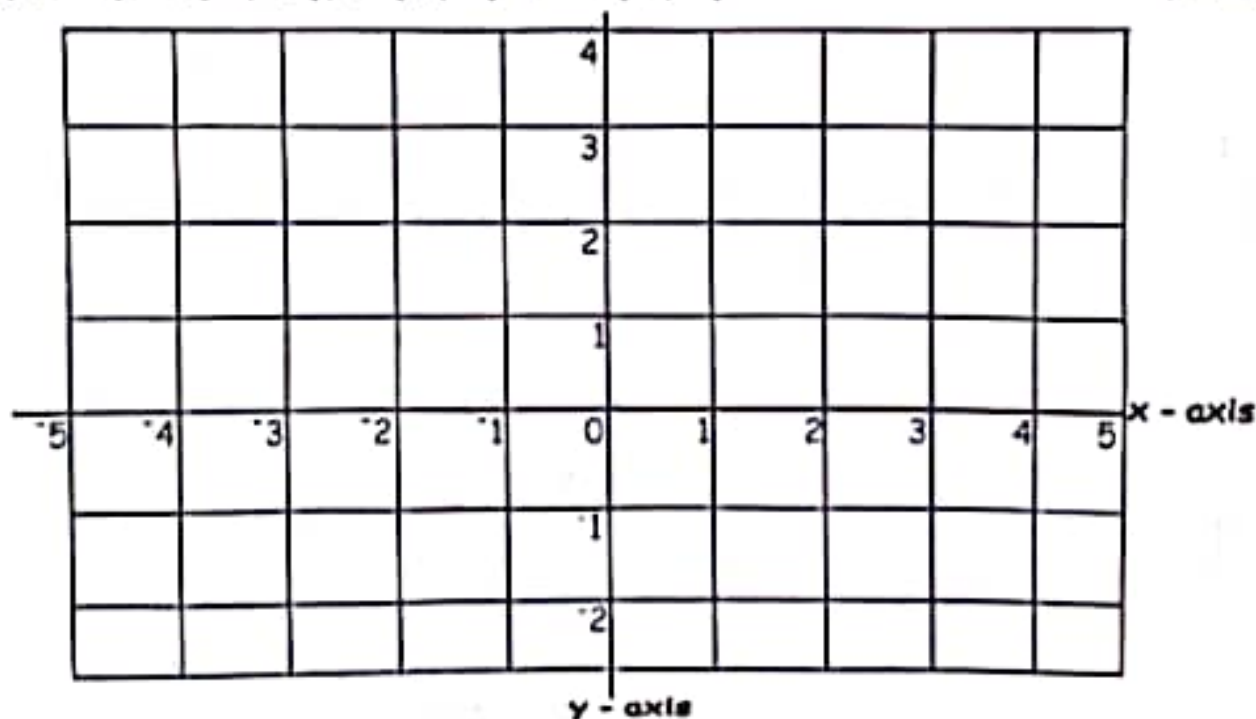


29. The sum of three consecutive odd numbers is 81. Find the numbers. (5marks)

30. (a) Plot the following co-ordinates on the graph below.

A (-4, -1), B (-4, -3), C (-4, 3) and D (-1, -1)

(4marks)



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

(1mark)

- (c) What special name is given to the formed figure?

(1mark)

31.	<p>(a) Use distributive property to work out:-  <math>(67 \times 24) + (24 \times 33)</math> (2marks)</p> <p>(b) A factory produces 810 shirts daily. How many boxes each holding 150 shirts are needed for all the shirts produced in 5 days? (4marks)</p>
32.	<p>(a) Express <math>2.34 \times 10^5</math> as a single number. (2marks)</p> <p>(b) What number was expanded to give:-  <math>(4 \times 10^3) + (2 \times 10^2) + (7 \times 10^0)</math> (2marks)</p>

THE END