



# VICTORY STEP EDUCATION SERVICES

PRIMARY LEAVING EXAMINATION SPECIAL MOCK

PRIMARY SEVEN

2023

MATHEMATICS

**Time Allowed: 2 hours 15 minutes**

Random No:	Personal No:
<input type="text"/>	<input type="text"/>

Candidate's Name: .....

Candidate's signature: .....

District ID No:

School Name: .....

**Read the following instructions carefully :**

1. Do not forget to write your **school** or **district** on the paper
2. This paper has two sections: **A** and **B**.  
Section **A** has **20** questions and section **B** has **12** questions.
3. Answer **all** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
4. All answers must be written using a **blue** Or **black** ball point pen or ink. Any work Written in pencil will not be marked.
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  
**"FOR EXAMINER'S 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		

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Turn Over

## SECTION A: 40 MARKS

Answer **all** questions in this Section  
Questions **1** to **20** carry two marks each

31

1. Work out :

$+ 2 = 12$

2. Write 40013 in words.

.....  
.....

(a)

3. The profit made on 3 shirts sold at Sh. 13000 each was Sh. 12000. Find the cost price of the shirt.

4. Round off 59.96 to the nearest tenths.

b)

5. During the swearing in ceremony of the new prefects of Entebbe Junior School this year, all the newly elected prefects stood in a straight line such that the Head girl was tenth line from either side of the line. How many new prefects are in Entebbe Junior School this year?

6. Subtract 2121 <sub>three</sub> - 122 <sub>three</sub>

7. Express the evening time shown on the clock face in 24 hour clock.



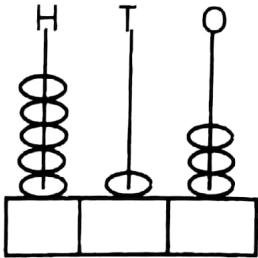
8. Given that  $x = y$  and  $y = 4$ . Evaluate  $\frac{3x + 5}{y}$

9. Express 0.6666..... as a common fraction

10. The perimeter of a square plot of land is 200 metres. Find its area?

11. Using a ruler and a pair of compasses only construct an angle of  $105^\circ$ .

12. Workout:  $3 \times 4 = \underline{\hspace{1cm}}$  (finite 5) using a dial.

13. Find the circumference of a circle whose radius is 21dm
14. The L.C.M of two numbers is 24 and their G.C.F is 4. If one of the numbers is 8, find the second number.
15. If today is Friday, what day of the week was it 45 days ago?
16. Given that  $P = (2, 3, 5, 11, 19)$  and  $Q = (1, 3, 5, 7, 9, 11, 13)$ .  
How many proper subsets are in the intersection of set P and Q?
17. Expand the number shown on the abacus below using powers of ten.
- 
18. The mean age of 3 children is 20. The total age of two of the children is 40 years. Find the age of the third child.

19. A mathematics P.L.E Mock paper lasting for  $2\frac{1}{2}$  hours ended at 10:30am. At what time did the paper start?

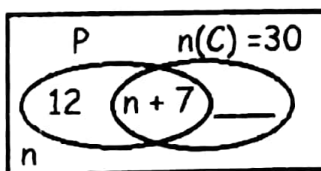
20. 6 porters take 4 Mow the school compound. How many porters working at the same rate are needed to Mow the same school compound in 2 days?

### SECTION B: 60 MARKS

Answer **all** the questions in this Section  
Marks for each question are indicated in brackets

21. At a party of 49 guests, 12 took Pepsi only,  $n + 7$  took cocacola (C) and Pepsi (P), 30 took coca-cola while  $n$  took neither of the drinks.

a) Complete the Venn diagram.



(1 Mark)

b) How many guests took both Pepsi and Coca-Cola?

(3Marks)

c) Find how many guests took Coca-Cola only.

(1 Mark)

22. The rate at which the bank buys and sells united states dollars and Kenya shillings are given below.

Currency	Rate at which a bank buys	Rate at which a bank sells
One U.S Dollar	Ug. Shs. 3200	Ug.shs. 3350
One Kenya shilling	Ug. Shs. 31	Ug.shs. 34

a) If a tourist has 800 dollars and 259 kshs, how much money in Uganda shillings can be got from the bank? (3 Marks)

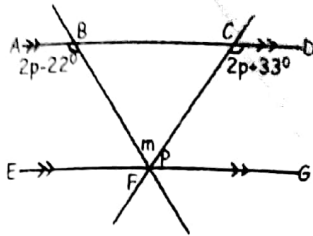
b) How many 1,000 shilling coins are equivalent to one fifty thousand shilling note? (2 Marks)

23. A driver left town A for town C driving at 50km/hr for 2hrs before he covered the remaining 80km in  $1\frac{1}{2}$ hr after resting for 30min, he drove to town C where he arrived at 1:00pm.

a) Find his average speed for the whole journey. (3 Marks)

c) When did he start his journey? (1 Mark)

24. ABCD and AD is parallel to EG as shown below.



a) Find the size of angle CFG

(2 Mark)

b) Find the size of angle m in degrees.

(3 Marks)

25. In a mathematics test given to a class, the marks scored, frequency and total marks scored are shown in the table below.

Marks scored	Frequency	Total Marks
54	3	162
64	2	
	3	210
85		340

a) Complete the above table.

(3 Marks)

b) How many pupils did the test?

(1Mark)

c) Find the range.

(1Mark)

26. The interior angle of a regular polygon is 5 times the exterior angle.  
a) Name the polygon. (2 Marks)

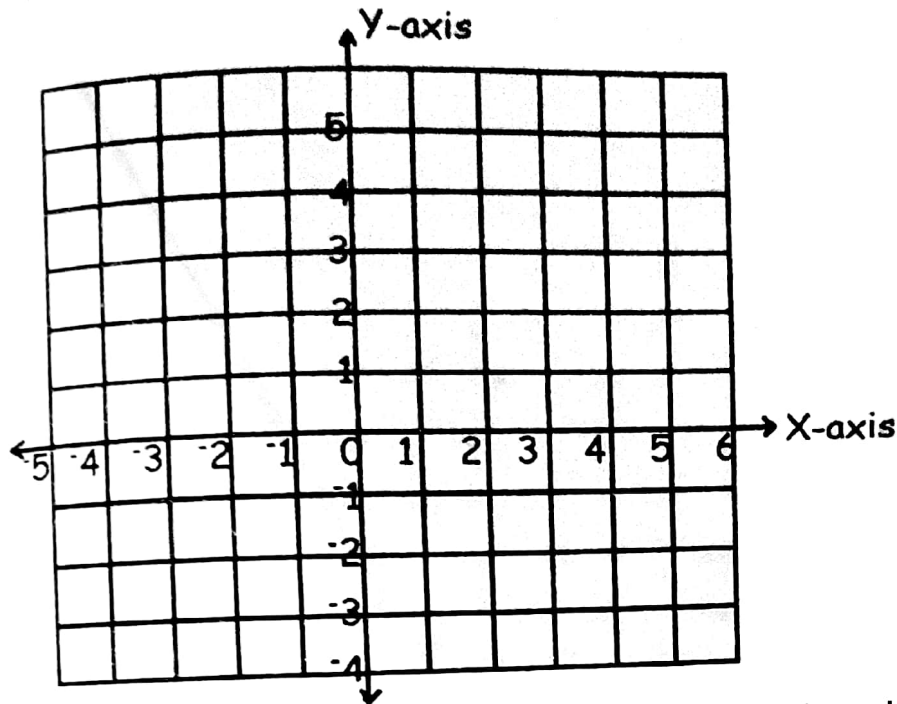
b) How many right angles have a polygon whose interior angle sum is  $1440^\circ$ ?  
(3 Marks)

27(a) Solve for x:  $(3x - 4) - (x + 6) = 0$ . (2 Marks)

b) Ssentamu is three times as old as his son Kangave. In 5 years time their total age will be 46 years. How old is his son now? (3 Marks)



- 5 (a) Plot the following points on the grid below: A(-1, 4), B(+5, +4), C(+5, +1) and D(-1, +1). (4 Marks)



- b) Join the points A to B, B to C, C to D, and D to A and work out the area of the figure formed. (1 Mark)

29. Town A is 650 metres away from Town B on a bearing of  $120^\circ$  and Town B is 500 metres East of Town C.

- a) Show the above information a well-drawn labeled sketch (1Mark)

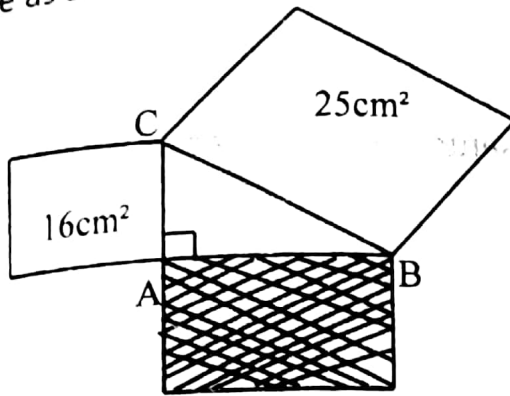
- b) Using a scale drawing of 1cm to represent 100m, draw an accurate diagram to show the positions of the three towns (4Marks)

- c) From the accurate diagram, find the true bearing of town A from town C (1 Mark)

30.  $\frac{1}{3}$  of the fruits in a basket are oranges,  $\frac{2}{5}$  of the remainder are passion fruit and the rest of the fruits are guavas. If there are 20 guavas in the basket, how many fruits were in the basket altogether?

(5 Marks)

31. The squares of different sizes were arranged to form a right angled triangle as shown in the figure below.



- (a) Find the area of the shaded square? (2Marks)

- b) Find length  $CB$  and  $AC$  (3 Marks)