

**GLOBAL EDUCATIONAL SERVICES**

**2023 - END OF TERM II (SET I) EXAMINATION**

**MATHEMATICS - PRIMARY SIX**

DURATION: 2Hrs : 30Minutes

NAME: .....  
SCHOOL: .....

SIGNATURE: .....

DISTRICT: .....

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

- 1. This paper is made of two sections A and B.**
- 2. Answers to both sections must be written in the spaces provided.**
- 3. Section A has 20 questions (40mks).**
- 4. Section B has 12 questions (60mks).**
- 5. Attempt ALL questions. All answers to both sections A and B **MUST** be written in the space provided.**
- 6. All answers must be written in blue or black ball point or ink. Only diagrams and graph work must be done in pencil.**
- 7. Unnecessary alteration of work will lead to loss of marks.**
- 8. Any handwriting that cannot be easily read may lead to loss of marks.**

*For Examiner's use only*

Qn. No.	Mark	Sign
1 - 10		
11 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
<b>TOTAL</b>		

(See)

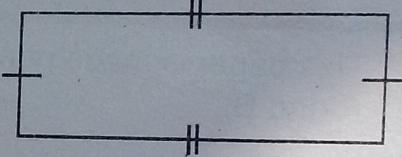


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Answers

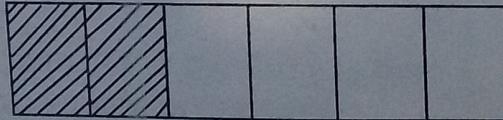
**SECTION A (40 Marks)**

1. Multiply:  $32 \times 3$
2. Write 94 in Roman numerals.
3. How many subsets are in a set with 4 elements?
4. Work out:  $(7) - (-4)$
5. Simplify:  $3x - 2x + 4x$
6. Using a ruler, a pencil and a pair of compasses only, construct an angle of  $60^\circ$ .
7. How many lines of folding symmetry does the figure below have?  
A rectangle with two vertical lines of symmetry. One line is on the left side, and another is on the right side, both passing through the center of the rectangle.
8. Find the median of 8, 6, 4, 7, 5 and 3.
9. Work out the L.C.M of 12 and 18.

10. Express 12:30p.m on a 24 hour clock.

11. The cost of 7 books is Shs.4900.  
What will be the cost of 12 similar books?

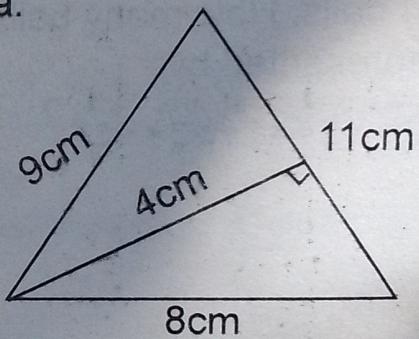
12. Write the unshaded fraction.



13. Find the next number in the sequence below.  
2 , 5 , 7 , 10 , 12 , 15 , 17 , .....

14. Express  $12\frac{1}{2}$  % as a ratio.

15. The figure below is a triangle. Find its area.



16. Workout:  $\frac{3}{11} \div \frac{4}{33}$

17. Find the square root of 144.

18. Given that   represent 14 balls. How many balls are represented by:



19. Change  $112_{\text{five}}$  to decimal base.

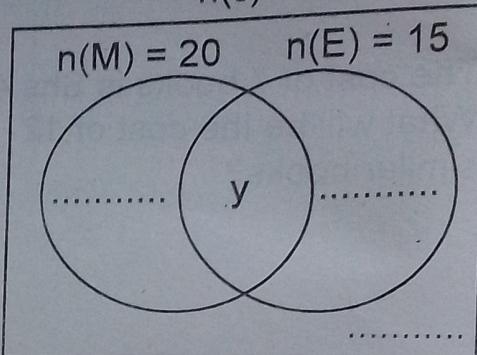
20. Write 3496 in words.

### SECTION B (60 Marks)

21. In a class of 35 pupils, 20 like Mathematics (M), 15 like English (E),  $y$  pupils like both Mathematics and English while 3 pupils like other subjects.

a). Complete the Venn diagram below. (3mks)

$$n(\varepsilon) = 35$$



b). Find the value of  $y$ . (2mks)

22. Damalie went to the market and bought the following items.  
3kgs of irish potatoes at Shs.1500@  
2kgs of tomatoes at Shs.3000 per kg  
 $\frac{1}{2}$ kgs of meat at Shs.14,000 per kg

a). Find her total expenditure.  
(4mks)

b). If she remained with  
Shs.10,000, how much money  
did she go with for shopping?  
(2mks)

23. The sum of the numbers in the  
magic square is the same  
vertically, horizontally and  
diagonally.

6	b	10
d	7	c
a	9	8

a). Find the magic sum. (1mk)

b). Find the value of a, b, c and d  
(4mks)

24. Sam, James, and Sarah shared  
Shs.36,000 in the ratio of 2:3:4  
respectively.

a). How much money did each get?  
(4mks)

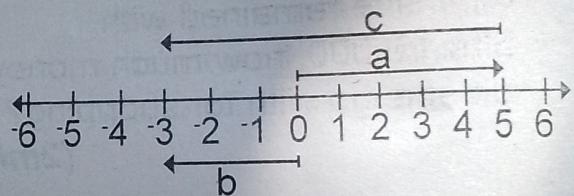
b). How much more money did  
James get than Sam? (2mks)

25. a). Solve:  $2x + 3 = 15$  (2mks)

b). Simplify:  $\frac{2.4 \times 3.6}{1.8 \times 1.2}$  (3mks)

b). Akol is 3 times as old as Opio. Their total age is 60 years. How old is Opio? (3mks)

27. Study the number line below and answer the questions about it.



a). What integer is represented by arrows; (1mk@)

i).  $a = \dots$

ii).  $b = \dots$

iii).  $c = \dots$

b). Write the mathematical sentence for the above numberline. (1mk)

28. Nabirye scored the following marks.  
40 , 50 , 30 , 60 , 70 , 20 , 30 , 50  
30 and 80

a). Find her range. (1mk)

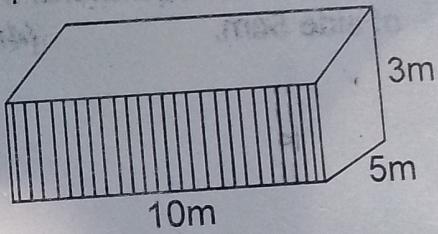
b). State her modal mark. (1mk)

c). Find her average score. (3mks)

29. A man driving at a speed of 60km/hr took 3 hours to travel from Jinja to Kampala. The return journey took him 6 hours.  
a). What was his speed for the return journey? (2mks)

b). Find his average speed for the whole journey. (2mks)

30. The figure below is a rectangular prism. Study it carefully and answer the questions that follow.



a). How many vertices has the prism? (1mk)

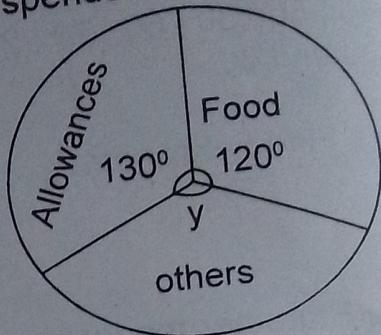
b). Find the area of the shaded part. (2mks)

c). Calculate its volume. (2mks)

31. a). Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle of side 5cm. (4mks)

b). Find its perimeter. (1mk)

32. The pie chart below shows how a school spends its income in a week.



a). Find the value of y. (2mks)

b). If the school spends shs.220,000 on other items, how much money does it spend the whole week? (2mks)

Good Luck