

RUBANDA SOLIDARITY PRIMARY SCHOOL

PRIMARY SEVEN MOCK EXAMINATION ACADEMIC PANNEL

MATHEMATICS EXAM 2023

Time:2 hours 30 minutes

Name.....

School.....

Class.....

District.....

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

Read the following instructions carefully.

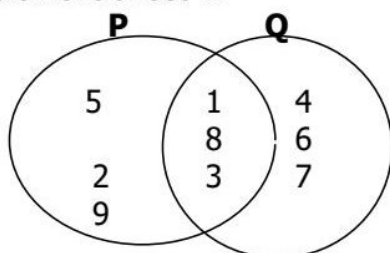
1. This paper is made up two sections A and B.
2. Section A has twenty (20) questions (40 marks)
3. Section B has twelve (12) questions (60 marks)
4. Answer all questions in both sections A and B
5. All answers in both sections must be written in the space provided.
6. Use blue or black ball point pen and ink, all drawings must be done using a pencil.
7. Unnecessary crossing of answers leads to loss of marks.
8. Any handwriting which cannot be easily read, may lead to loss of marks.
9. Moving in and out of the classroom during examination, is a sign of examination malpractice.
10. Do not share your work with your friend or else one.

QUIZ	MARKS	INITIALS
1-10		
11-20		
21-24		
25-28		
29-32		
TOTAL		

SECTION A: (40 MARKS)

1. Work out: $\frac{1}{2} \times \frac{1}{6}$

2. Use the Venn diagram below to find the complement of set P.



3. Write 55, 555 in words.

4. If represents 400 people, how many people are represented by

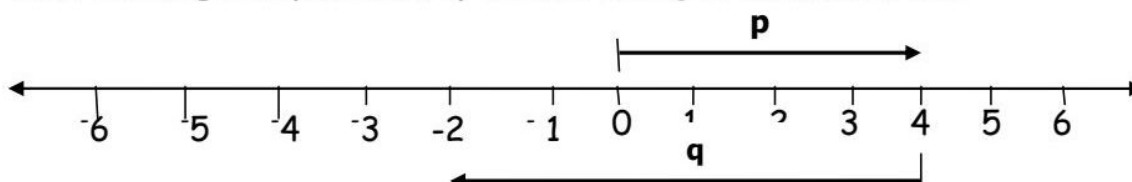


5. Simplify: $9p + 7q - 4p + 3q$

6. Find the difference between the third and the tenth whole numbers.

7. Murungi's cow gives 9700 milliliters of milk every day. Express its production in litres.

8. Write the integers represented by letters P and Q on the number line.



p = _____

q = _____

9. Mukisa bought a shirt at 15 Euros. How much is this in Uganda shillings, If 1 Euro is equivalent to 4090 Uganda shillings ?

10. Subtract: **Wks** **Days**

$$\begin{array}{r} - \quad 5 \quad 3 \\ \quad 2 \quad 6 \\ \hline \\ \hline \end{array}$$

11. Work out: $14 - 12 + 6$.

12. Using a ruler, a pencil and a pair of compasses only, construct a circle of diameter 6cm.

13. Use the prime factorization method to find the square root of 196.

14. Solve: $2x + 3x + 4 = 29$.

15. Write CCXLIX as a Hindu – Arabic numeral.

16. 4 people can do a piece of work in 5 days. How many days will 10 people take to do the same piece of work?

17. Divide: 2424 by 6.

18. Find the L.C.M of 18 and 12.

20. If $P = \{ a, b, c, d \}$, Find the number of subsets in set P.

19. What is the larger angle between East and South West?

SECTION B: (60 Marks)

21. The table shows Kityo's shopping bill.

Item	Quantity	Unit cost	Total
Blue Band	$\frac{1}{2}$ kg	Sh. 10000 a kg	Sh. 5000.
Bread	_____loaves	4000 a loaf	Sh. 8000.
Tea leaves	$\frac{1}{4}$ kg	_____	Sh. 1500
Sugar	2kg	Sh.4500 a kg	_____
Total			_____

(a) Complete the shopping bill showing all the working. (1 mark each)

- (b) If he remained with sh. 6500 after buying all the items in the shopping bill, how much did he go with? *(2 marks)*

22 (a) Given that $p = 3$, $q = 4$ and $r = 6$. Find the value of $\frac{pq}{r}$. *(2 marks)*

- (b) I think of a number, multiply it by 10, the answer is 80. Find the number. *(2 marks)*

- (c) Solve: $3y + 2 - y = 10$. *(2 marks)*

23. Using a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS in which PQ = 8cm and QR = 6cm. (5 marks)

24 Mary started a journey of 120km at 8:30 a.m and ended it at 10:00 a.m.

a) Find his average speed in km/hr. (3 marks)

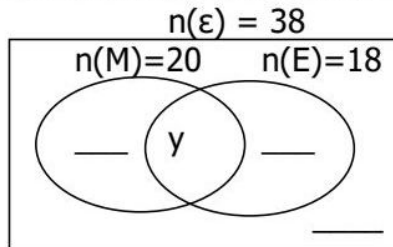
(b) Express 54km /hr to metres / second. (2 marks)

25a) Simplify: $\frac{4}{5} \times \frac{1}{6} \div \frac{2}{3}$ (2 marks)

(b) Work out: $\frac{0.24 \times 0.3}{0.08}$ (2 marks)

26. In a class of 38 pupils, 20 like Maths (M), 18 like English (E), 2 does not like any of the two subjects but some (y) pupils like both subjects.

- (a) Show this information on a Venn diagram below. (3 marks)



- (b) How many like both subjects? (2 marks)

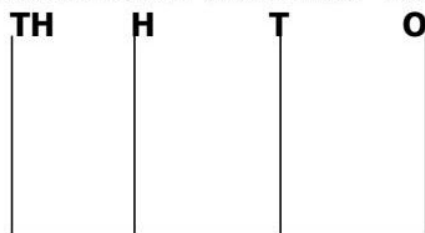
27. Madinah scored the following marks in the Maths weekly tests: 80, 72, 68, 70 and 60.

- (a) Calculate her average score. (2 marks)

- (b) An average of 6 chairs per table were prepared for guests at a party. If there were 234 tables, find the total number of chairs prepared. (2 marks)

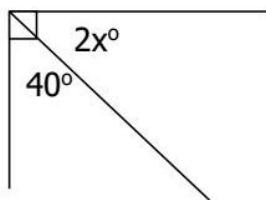
28. (a) Round off 89.79 to the nearest whole number. (1 mark)

(b) Draw beads to show the number 4312 on the abacus below. (2 marks)

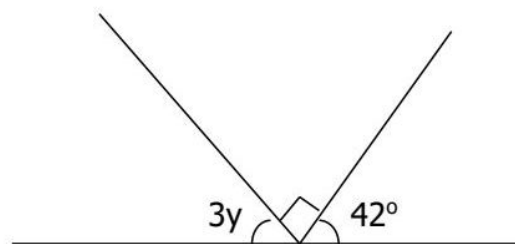


(c) Write 9483 in expanded form using values. (2 marks)

29 (a) Find the value of x . (2 marks)



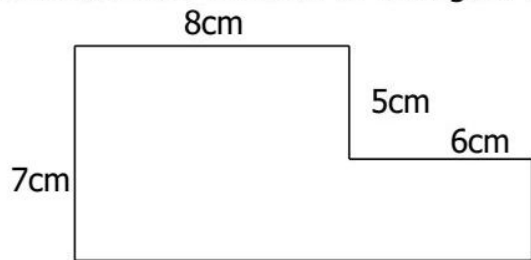
(b) Find the value of y . (2 marks)



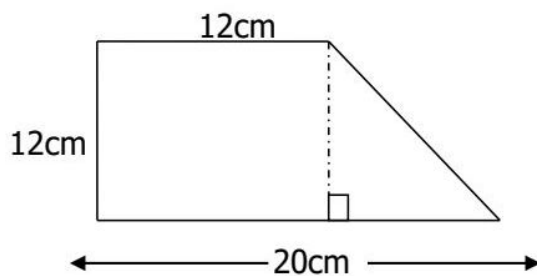
(c) How many lines of symmetry has the figure below. (2 marks)



30 (a) Calculate the Perimeter of the figure below. *(3 marks)*



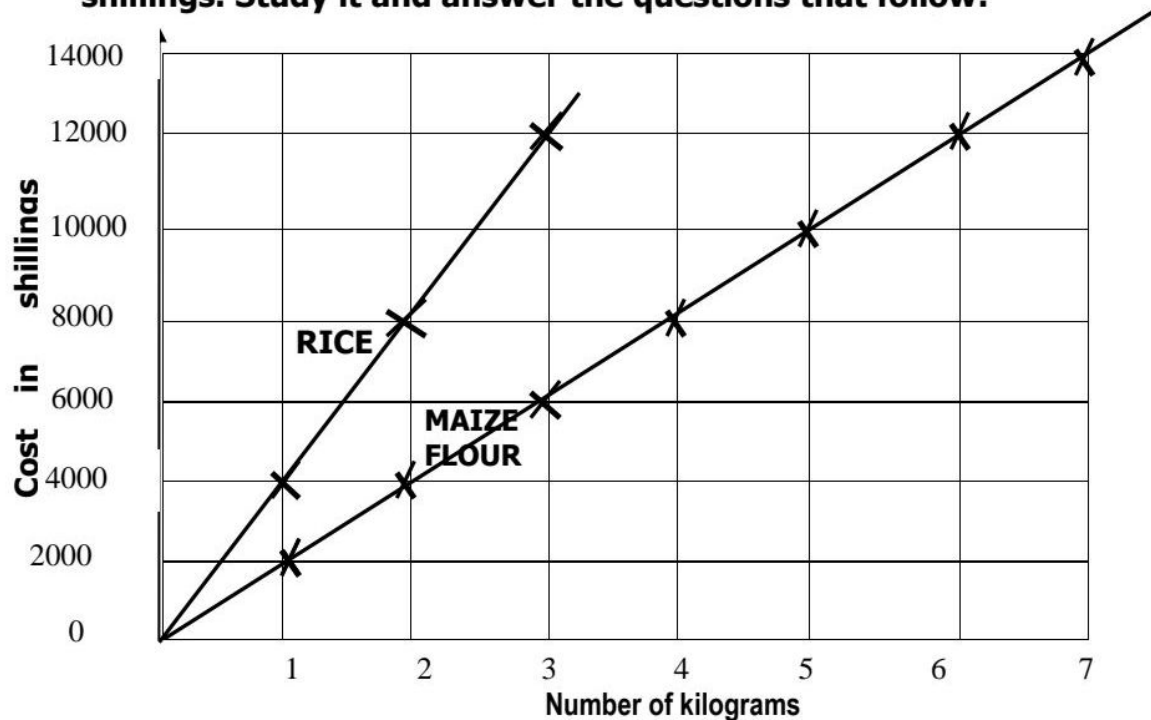
(b) Find the area of the figure below. *(3 marks)*



31(a) Okello's daily income was sh. 20000. It is decreased in a ratio of 3:4. What is his new income? *(2 marks)*

(b) Find the simple interest on sh. 500.000 borrowed for 6 months at 18% per annum. *(2 marks)*

32. The graph below shows the cost of Rice and that of maize flour in shillings. Study it and answer the questions that follow.



- | | |
|---|---|
| (a) What is the cost of 1 kg of rice?
(1mark) | (c) How many kg of maize flour can one buy with sh.8000? (1mark) |
| (b) What is the cost of $1\frac{1}{2}$ kg of maize flour? (1mark) | (d) Mulindwa has sh. 12000, how many kg of Rice did he buy? (1mark) |