

KINONI II PRIMARY SCHOOL

JOINT PRE - MOCK 2023

P. 7 MATHEMATICS

Time Allowed : 2 hours 30 minutes

Index No.

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NAME:

STREAM:

SCHOOL:

Read the following instructions carefully.

1. The paper has two sections A and B.
2. Section A has 20 short answer questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer all questions. All working and answers for both sections A and B must be shown in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink . Only Diagrams should be drawn in pencil.
6. Unnecessary alteration of work will lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated for " official use only"

FOR OFFICIAL USE ONLY		
SECTION	MARKS	T/L MARKS
A		
B		
TOTAL		
TEACHER'S COMMENTS		

SECTION A

1. Work out: $77 - 46$

2. Write XLVII in words.

3. Simplify : $-2 - -5$

4. Given that $K = \{4, 6, 8, 12\}$ and $M = \{2, 3, 4, 8, 10\}$.

Find $n(K \cap M)$ complement.

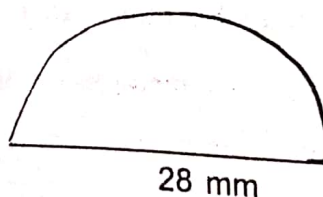
5. Using a pair of compasses, a ruler and sharp pencil only, construct an angle of 135°

6. Subtract $(m+3)$ from $(2m+5)$

7. Simplify: $\frac{1}{5} + \frac{1}{2}$

8. If today is Thursday, what day of the week will it be after 20 days?

9. Calculate the perimeter of the figure below
(Take $\pi = \frac{22}{7}$)




10. Write 1101_{two} in words.

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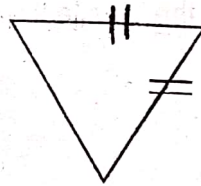
11. Otega took $2\frac{1}{2}$ hours to cover a certain distance at a speed of 80km/hr.
What distance did he cover?

15. Paul bought a shirt for shs. 35.600.
If he was given a change of shs.4400,
how much money did he have at first?

16. Given that  represents 20 books.
Draw pictures to represent 140 books.

12. In the number 48931, find the value of 8

17. How many lines of folding symmetry has the figure below.



13. Ofono, a milk seller had 20 litres which he sold using a $\frac{1}{4}$ litre cup.

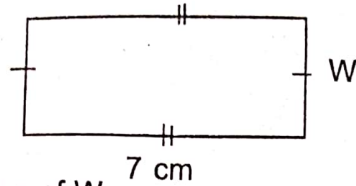
If he sold all the milk, how many cups did he sell?

18. Convert 7.08 tonnes to kilograms.

14. Find the L.C.M of 9 and 12 .

19. Work out: $(625 \div 20) + (75 \div 20)$
using distributive property.

20. The perimeter of the rectangle below is 20 cm.



Find the value of W .

SECTION B (60 MARKS)

21. Given the digits 3, 0 and 7.

(a) Write down all possible three digit numbers formed using the above given digits.

(4 marks)

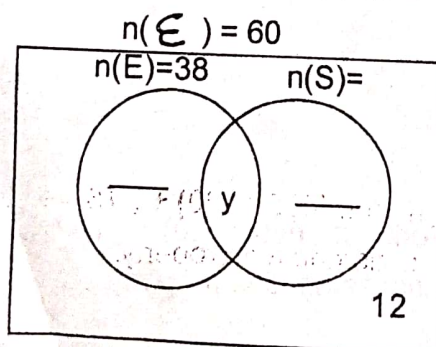
(b) Work out the sum of the smallest and the largest numbers formed using the above given digits.

(01 mark)

22. In a class of 60 pupils, 38 like English, $(y + 1)$ pupils like only Science (S), "y" like both subjects while 12 like neither of the two subjects.

(a) Represent the above information on a venn diagram below.

(02 mrks)



(b) Find the value of y

(2mrks)

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(c) How many pupils like Science?

(1 mrk)

23. (a) During the time of COVID-19 Pandemic, doctor Tugume bought the following items.

A box of gloves at shs. 12,000

12 face masks at shs. 2000 each mask

6 bars of soap at shs. 5000 @ bar

3 bottles of sanitizers at shs. 4000 @ bottle.

If she was given a discount of 10%. How much money did he pay for all the items.

(06 mrks)

24. (a) Work out:

$$\frac{2}{3} - \frac{1}{3} + \frac{1}{2}$$

(2 marks)

(b) Simplify :

$$\frac{0.59 - 0.23}{0.08 + 0.28}$$

(2marks)

25. (a) Using a pair of compasses, a ruler and a sharp pencil, construct triangle CBS in which line $CB = 6\text{ cm}$, angle $CBS = 120^\circ$ and $\overline{BS} = 7\text{ cm}$. (4 mrks)

(b) Measure line $CS =$ _____ cm . (1mrK)

26. (a) Solve for W in $3w - (2-w) = 14$ (3mrks)

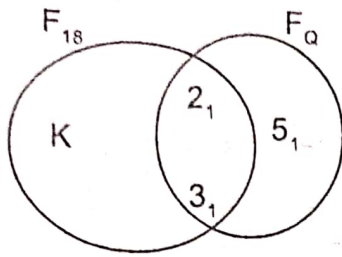
(b) Find the value of $2b^2 + c$, if $b = 2$ and $c = 3$ (2 mrks)

27. In a class of 100 pupils, 75% are boarders and the rest are day scholars.

(a) Find the percentage of day scholars in the class. (2mrks)

(b) How many more boarders than day scholars are in the class? (3mrks)

28. The venn diagram below shows the prime factors of Q and 18.



(a) Find the value of

(i) Q

(1mk)

(ii) K

(2mrks)

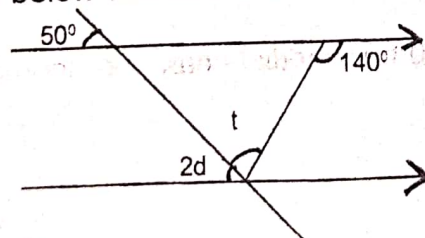
(b) Find the HCF of Q and 18

(1mrk)

29. At a birth day party, Muramira bought a certain number of cakes. When he served them to 5 people, one cake remained. When he served the same number of cakes to 7 people, only three cakes remained.
What was the smallest number of cakes Muramira bought?

(4 mrks)

30. Study the diagram below and use it to answer questions about it



Find the value of ;

(a) d

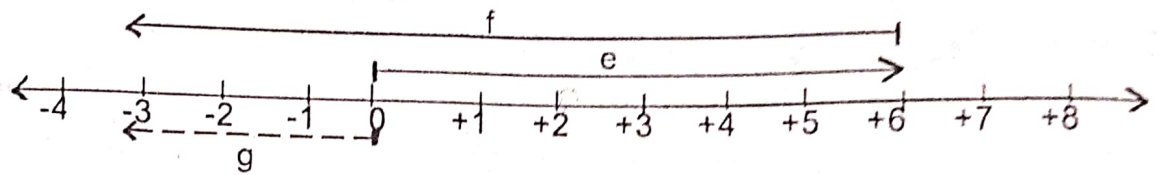
(2mrks)

(b) t

(3mrks)

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31. Study the number line carefully and answer the questions that follow



(a) Write the values of : (1mk@)

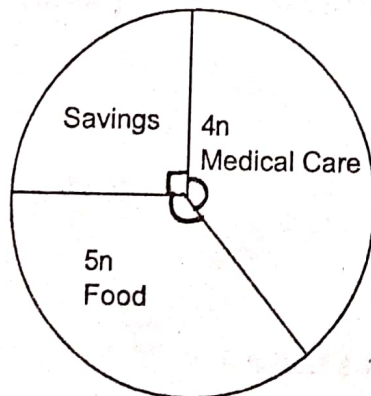
(i) $e =$

(ii) $f =$

(iii) $g =$

(b) Write a mathematical sentences to satisfy the above number line. (2 marks)

32. The pie chart below shows Guma's monthly expenditure. Use it answer the question that follow.



(a) Find the value of n in degrees. (2 mrks)

(b) If Guma spends shs. 60,000 on medical care, find his monthly expenditure. (3mrks)