ISINGIRO DISTRICT PRIMARY SCHOOLS HEAD TEACHERS' ASSOCIATION
P.7 MOCK 2024
MATHEMATICS

Time allowed: 2 hours 30 minutes

Name: .....

School: .....

Index no:.....

INSTRUCTIONS

1. Read the following instructions carefully:
2. This paper has two sections: **A** and **B**
3. Section A has **20** questions and Section B has **12** questions.
4. Answer **all** questions. All the working for both Sections **A** and **B** **must** be shown in the spaces provided
5. All answers must be done using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked. Diagrams must be drawn only in pencil.
6. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to loss of marks.
7. Do not fill in anything in the table indicated: "**For Examiners' use only**"

FOR EXAMINERS' USE ONLY		
Qn. No	MARKS	**EXAMINER'S INITIALS**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 – 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		

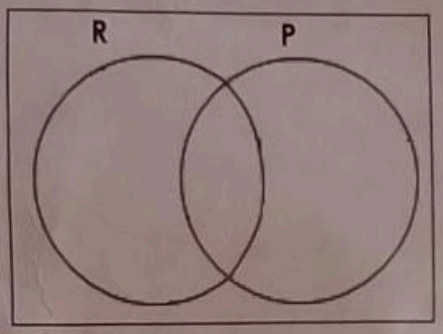
SECTION A (40MKS)

1. Work out:

$$\begin{array}{r} 7\ \ 6 \\ -\ 1\ \ 1 \\ \hline \end{array}$$

2. Write in figures "Twelve thousand twenty four"

3. Shade P complement in the venn diagram below.



4. Find the square of the next number in the sequence below; 2, 3, 5, 7, _____

5. Calculate the value of 4 in the number 2406

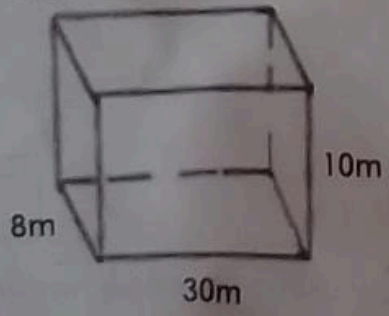
6. Using a pair of compasses, a ruler and a sharp pencil only, construct an angle of 150°
in the space provided below.

7. In a class of 30 pupils, 17 of them are girls and the rest are boys. Represent the number of boys in a class using tallies.

8. Subtract $3(m-2)$ from $4m + 7$.

9. What number has been expanded to give; $(9 \times 10^{2}) + (3 \times 10^{0}) + (4 \times 10^{-2})$?

10. Calculate the volume of the figure below.



11. Joab sold two ducks for Shs. 38500 altogether making a profit of 7200. Determine the price at which Joab bought the two ducks.

12. Work out: $4\frac{1}{2} \div 1\frac{1}{2}$

13. Find the least number of apples which can be shared by 18 or 20 leaving a remainder of 7 apples.

14. Simplify: $^{-}7 - {}^{-}9$

15. Atim bought 7.02 tonnes of beans for stock last season. Express this mass in kilograms.

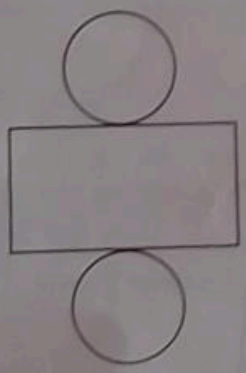
16. The table below shows the number of cows Mr. Rwamuhima has on his two farms. Express the total number of cows Mr. Rwamuhima has on his two farms in Roman numerals.

Farm	Number of cows
A	301
B	143

17. Solve for g: $3g = 2(g+5)$.

18. Kavuma arrived for the meeting at 9:15am. This was 50 minutes earlier than the start of the meeting. At what time was the meeting supposed to start?

19. Name the shape whose net has been drawn below.



20. The price of an article reduced by 25%. If the new price is Shs. 12,000. What was the original price of an article before the reduction?

SECTION B

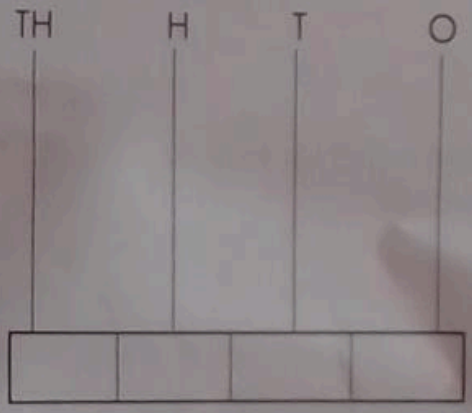
21. Given the digits 7, 0, 1 and 5.

a. Form the:

i. Largest 4-digit number using the above digits. **(1mk)**

ii. Smallest 4-digit number using the given digits. **(1mk)**

b. Represent the largest number formed on the abacus below. **(2mks)**



22. Teacher Obed went to the market and bought the following items.

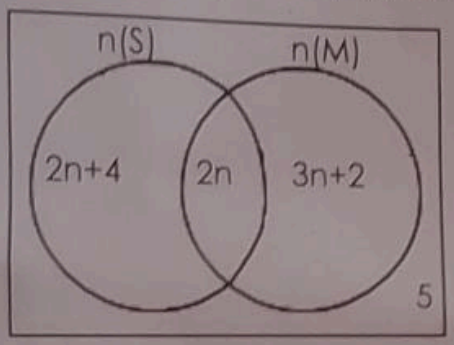
- 2½kg of meat at shs. 12,000 @kg.
- 4 heaps of tomatoes at shs. 1800 @ heap.
- 750gm of salt at shs 2000 for every kg.
- A bunch of matoke at shs. 13500.

a. Calculate his total expenditure **(4mrks)**

b. If he had three-twenty thousand shilling notes at first, workout his change.

(2mks)

23. The venn diagram below shows the number of teachers in a school and the subjects they teach. Some teach science (S) and mathematics (M) while "5" teachers teach other subjects. Study it carefully and use it to answer the questions about it.



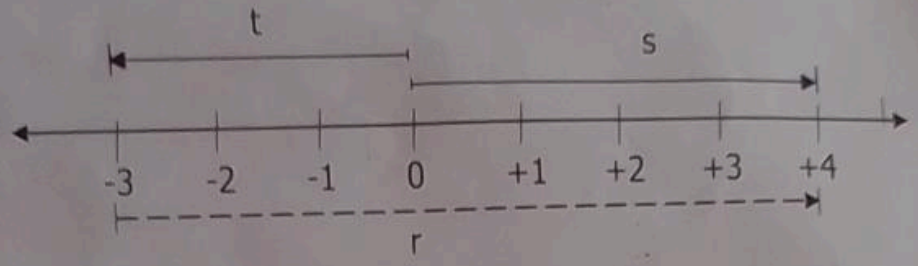
If the number of teachers who teach science is exactly equal to the number of teachers who do not teach science at all.

a. Find the value of n. **(3mks)**

b. How many teachers are in the school altogether? **(2mks)**

b. How many mangoes did Nawe receive? (2mks)

28. Study the number line below and use it to answer the questions that follow.



a. Name the integers represented by the arrows. (1mk @)

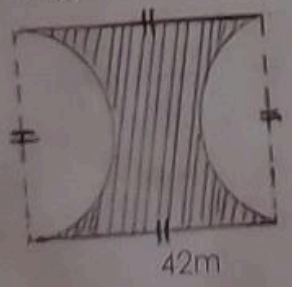
i. s = _____

ii. t = _____

iii. r = _____

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

29. Study the figure below and use it to answer the question about it.

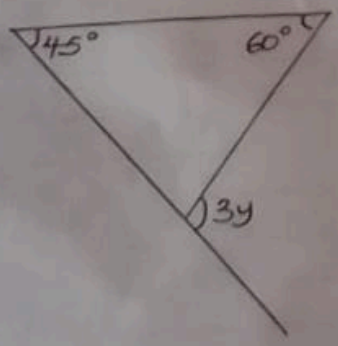


a. Find the perimeter around the shaded part (use $\pi = \frac{22}{7}$ (3mks)

b. Calculate the area of the shaded part. (3mks)

30. a. Austin is facing North East. If he turns through an angle of 225° anti-clockwise. Fi
his new direction. (2mks)

b. Find the value of y in the diagram below. (2mks)



31. Given that r = -2, q = t-r and t = 8. (3mks)

a. Find the value of $\frac{q\,(r^2)}{t}$

b. Solve for n: $3n - 7 + \frac{3n}{4} = 23$ (3mks)

32. A motorist covered the first part of his journey in 3 hours at a speed of 80 kilometers per hour. He rested for 1½ hours and covered the remaining part of the journey in 2 hours at a speed of 50km/h. calculate the motorist's average speed for the whole journey while travelling. (5mks)