YAAKA EXAMINATIONS
PRIMARY LEAVING EXAMINATION
2024
MATHEMATICS
Allowed: 2 hours 30 minutes

Candidate's Name

.....

Read the following instructions carefully:

The paper has two sections: **A** and **B.**

Section **A** has 20 questions (40 marks)

Section **B** has 12 questions (60 marks)

Answer all questions. All answers to both Sections **A**

and B must be written in the spaces provided.

All answers must be written using a blue or black ball

point pen or ink. Diagrams should be drawn in pencil.

Unnecessary changes in your work may lead to loss of marks.

Any handwriting that cannot be easily read may lead toloss of marks.
Do not fill anything in the table indicated:

"For Examiner's use only" and boxes inside the questionpaper.

FOR EXAMINERS' 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		

Section A (40 Marks)

1. **Add**: 145 + 268.
    - **Solution**:

      145 + 268 = 413.

      Answer: 413.
2. **Convert 0.0625 to a fraction in its simplest form.**
    - **Solution**:

      $0.0625=\frac{1}{16}$.
3. **Find the next number in the sequence**: 5, 10, 20, 40, ___.
    - **Solution**: The next number is 80.

      Answer: 80.
4. **Calculate the perimeter of a rectangle with a length of 12 cm and width of 7 cm.**
    - **Solution**:

      Perimeter = 2 × (12 + 7) = 38 cm.

      Answer: 38 cm.
5. **Write 79 in Roman numerals.**
    - **Answer**: LXXIX.
6. **Express 0.45 as a percentage.**
    - **Solution**:

      0.45 × 100 = 45%.

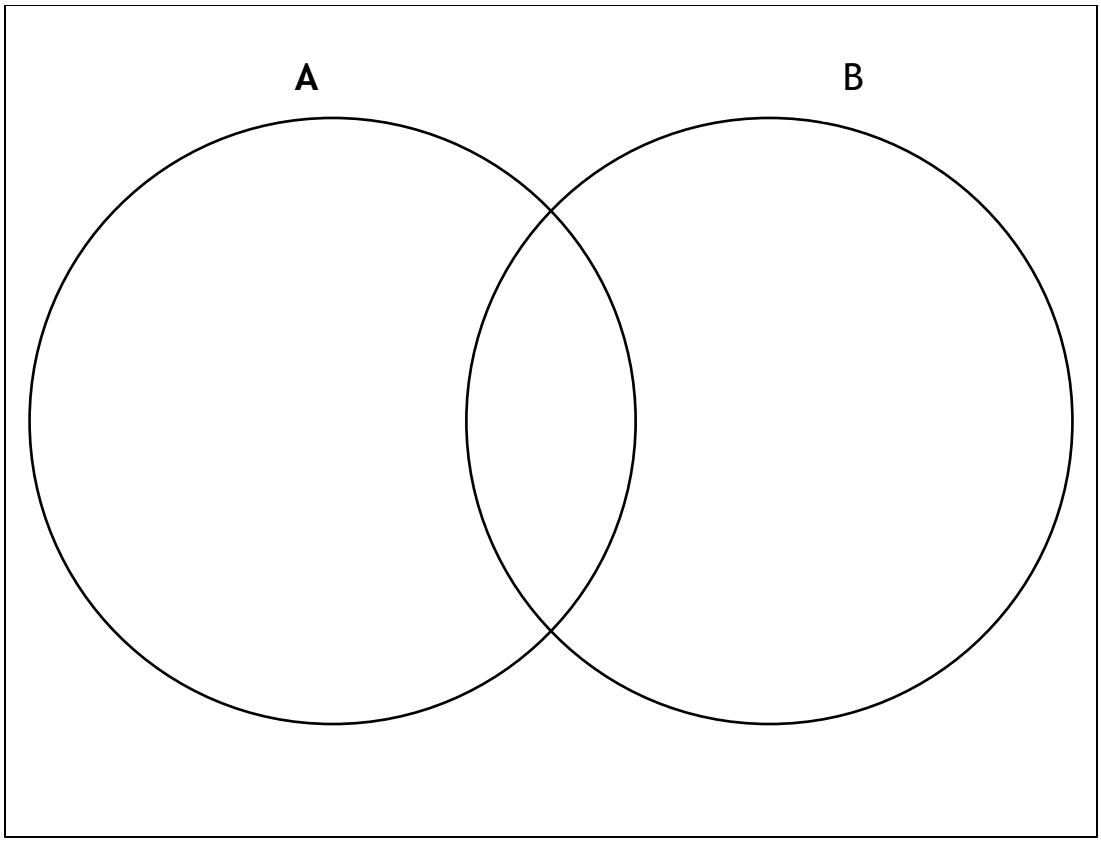
      Answer: 45%.
7. **Solve for x in the equation**: $3x-4=8$
8. **Convert 3 hours and 15 minutes to minutes.**

- **Solution**:

  195 minutes.

  Answer: 195.

9. **Simplify**: $\frac{7}{8} \times \frac{4}{7}$
10. **Solve the inequality**: $5x-3<2x+12$
11. **Write 24,500 in scientific notation.**
12. **Find the area of a square with a side length of 5 cm.**
13. **Express 0.083 as a fraction in its simplest form.**
14. **What is the mode of the numbers**: 4, 6, 6, 8, 10?
15. **Convert 150 minutes to hours.**
16. **Find the LCM of 18 and 24.**
17. **A bottle contains 1.25 liters of juice. How many milliliters is this?**
18. **If a set has 3 elements, how many subsets does it have?**
19. **Shade the complement of set A in a Venn diagram with sets A and B.**



20. **A car travels 180 km in 3 hours. Find its average speed.**

    - **Solution**:

      60 km/h.

      Answer: 60 km/h.

Section B (60 Marks)

21. **A mother is thrice as old as her son, who is K years old. In 2 years' time, the product of their ages will be 8(K + 38). Find the mother's current age.**

22. **Construct an angle of 75° using only a ruler and a pair of compasses.**

23. **Simplify**: $4x-7(3-2x) = 13$

24. **Calculate the volume of a cylinder with a radius of 4 cm and height of 10 cm.**

25. **Construct a triangle ABC where AB = 8 cm, AC = 5 cm, and angle BAC = 60°.**

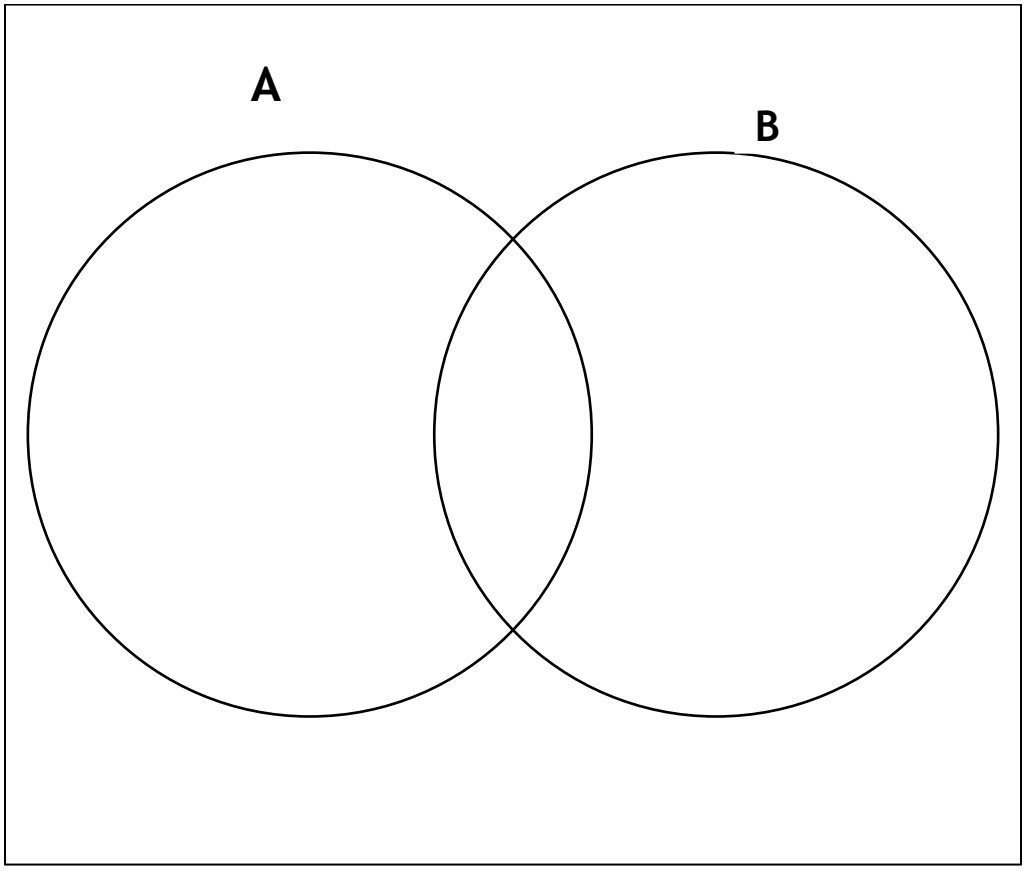
26. **Find the missing angle in a triangle where two angles are 45° and 90°.**

27. **Draw a perpendicular bisector of a line segment 8 cm long.**

28. **Solve the equation**: $2x+3=4x-5$

29. **Find the total cost of 6 pens at shs. 150 each and 3 books at shs. 800 each.**

30. **Shade the region representing A∩B in the Venn diagram.**



31. **The sum of the angles in a polygon is 540°. Find the number of sides.**

32. **Solve the inequality and represent it on a number line**: $-3<2x-1<5$

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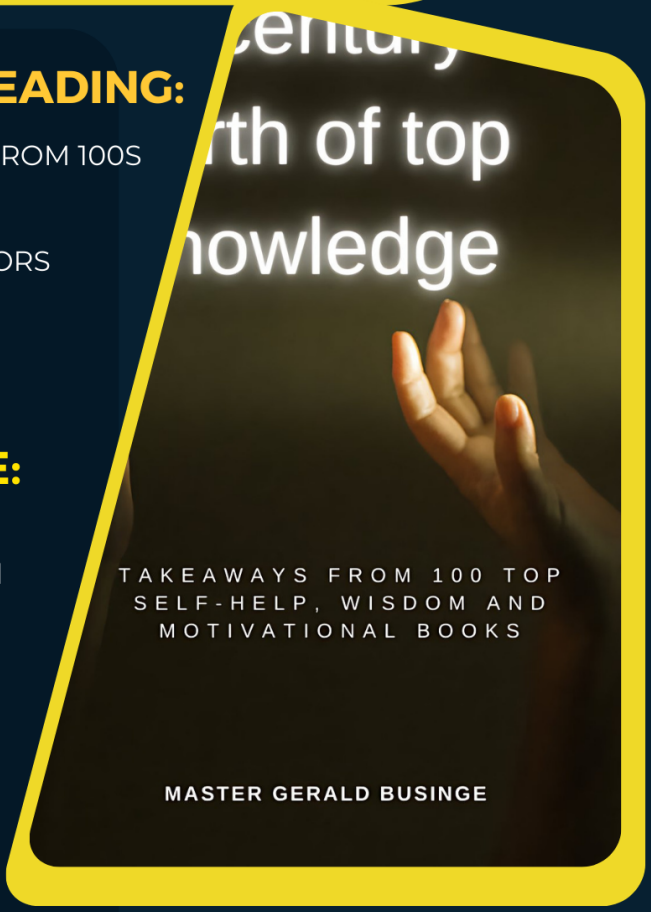

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