JIM JUNIOR SCHOOL - KIBUKU

“To Excel Is Our Aim”

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**END OF TERM ONE EXAMINATIONS 2023**

**PRIMARY SIX**

**MATHEMATICS**

**DURATION: 2HRS 30 MIN**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SECTION A (40MARKS)**

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| 1. | Add 47 + 21 |
| 2. | Solve for *y: 2y + 4 = 10* |
| 3. | Describe the shaded region in the venn diagram below |

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| 4. | Find the next two numbers in the sequence    0, 2, 4, 6, \_\_\_\_, \_\_\_\_ |
| 5. | Add: |
| 6. | Work out: 4 ++ 7 |
| 7. | Peter walked a distance of 4km from home to school. What distance did he cover in metres? |
| 8. | Find the distance covered by a bus travelling at a speed of 6okm/hr for 2hrs. |

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| 9. | What number has been expanded to give  4000 + 600 + 70 + 4 |
| 10. | Find the value of *y*in the diagram below          2  *y*    40  0 |
| 11. | A radio was bought from a shop at sh.40,000 and sold at sh.36,450. Calculate the loss made |
| 12. | Shade  of the diagram below.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | |  |  |  |  |  |  | |

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| 13. | If set *k*={*a,b,c}* how many subsets has set k |
| 14. | Draw tallies to represent 27 |
| 15. | Work out 6 - 2 + 4 |
| 16. | Round off 245 to the nearest tens |
| 17. | Find the LCM of 4 and 6. |
| 18. | If  picture represents 5 balls. Draw pictures to represent 45 balls. |
| 19. | Express 0.4 as a common fraction in its simplest form. |
| 20. | How many lines of folding symmetry has the figure below |

SECTION B (60 Marks)

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| 21.                (a)  (i) | Study the Venn diagram below and use it to answer questions that follow    List elements of:-  K = (**1mark)** |
| (ii) | *K R* (**1mark)** |

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| (b) | Find *n (K – R)* (**2marks)** |
| 22.  (a) | Racheal wrote the following digits on different cards; 6, 7 and 9  Write down the smallest number written using the digits (**1mark)** |
| (b) | Write down the largest numeral written using the digits. (**1mark)** |
| (c) | What is the sum of the largest and the smallest number written  (**1mark)** |
| 23a) | Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon using a radius of 3.5cm. (**3marks)** |

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| (b) | Calculate the perimeter of the above hexagon (**2marks)** |
| 24.    (a) | In a class of 72 children, are boys and the rest are girls.  What fraction of the class are girls? (**2marks)** |
| (b)(i) | Find the number of boys in the class (**2marks)** |
| (ii) | Girls in the class (**2marks)** |
| 25(a) | Add: 2 2 3five  + 1 4five  (**2marks)** |
| (b) | Change 123five  to base ten (**3marks)** |

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| 26.              (a)  (i) | Study the number line below and use it to answer the questions that follow.            a    -  5    -  4    -  3    -  2    -  1    0    1    2    3    4    5    6    c    b    Write down the integers indicated by letters (1**mark each)** a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| (ii) | b \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| (iii) | c \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| (b) | Write a mathematical statement for the above information (**2marks)** |
| 27.  (a) | A bus travelling at a speed of 40km/hr covered a distance of 240km.  Find the time taken by the bus. (**2marks)** |

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| (b) | A mathematical lesson started at 8:40am and ended at 10:30am. How  long was the lesson (**2marks)** |
| 28.              (a)  (i) | Use the venn diagram below to answer questions that follow              Find the value of; (**1mark)** y |
| (ii) | m (1**mark)** |
| (b) | Find the GCF of y and m (**2marks)** |

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| (c) | Find the LCM of y and m (**2marks)** |
| 29.            (a) | Kate bought the following items from the supermarket   * 2kg of sugar at sh.5000 per kg * 2 mathematical sets at shs.4000 * 4 pens at shs. 500 each * 3kg of rice at shs.4000 per kg     What was Kate’s total expenditure? (**4marks)** |
| (b) | If Kate had 2 notes of twenty thousand shillings, how much did she take as change |

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| 30.  (i) | Solve and find the value of *y*  *y* + 6 = 11 (**2marks)** |
| (ii) |  |
| 31.                (a) | Study the diagram below and use it to answer questions that follow            3  m    4  m    5  m    6m    Find the area of the outside figure. (**2marks)** |

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| (b) | Find the area of the inside figure (**2marks)** |
| (c) | Work out the area of the shaded part (**1mark)** |
| 32.      (i) | The following marks were scored by a P.6 pupil in the beginning of term one examination  50, 40, 75, 50, 45  Find the range of the marks |
| (ii) | Find the median mark |
| (iii) | Work out the mean                **END** |