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| **SECTION A** | | | |
| 1. | Add: | 2. | Write 49 in roman numerals. |
| 3. | Shade set **B** on the Venn diagram.  A B | 4. | Simplify: **-4 ++7 =** |
| 5. | Change **7500gm** to **kg**. | 6. | List all the **factors** of **12.** |
| 7. | Solve for k: **2k + 1 = 7** | 8. | Write 4,035 in words. |
| 9. | How many days are in 4 weeks? | 10. | Find the lowest common multiple of 4 and 3. |
| 11. | Express 8 meters to cm. | 12. | Set P = { a,b,c,d } . how many members are in set P? |
| 13. | Find the next number in the series.  **2, 3, 5, 7, \_\_\_\_** | 14. | Shade of the diagram below.   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |
| 15. | Express 3 into an improper fraction. | 16. | Find the square of **9.** |
| 17. | Add: **2 3 2 five**  **+ 3 1 five** | 18. | If **a=2**, **b=3**, find the value of  **3a + b**. |
| 19. | If a book costs **Shs. 2400**. Find the cost of **3** books. | 20. | A rectangle has length of 10cm and width of 6cm. Find the perimeter of the rectangle. |
| **SECTION B** | | | |
| 21.  a) | Given the digits; 4, 0, and 2.  Re-arrange the digits to form the smallest number. **(2 marks)** | c) | Find the sum of the largest and smallest number formed. **(3 marks)** |
| b) | Re-arrange the digits to form the smallest number. **(2 marks)** |
| 22.  a) | Workout: **4 8 7 (2 marks)**  **+ 5 1 3** | b) | Subtract: **4 5 5 (2 marks)**  **-1 7 6** |
| 23.  a) | Given that Set M = { w, e, I, c, o, k} and Set N = {t, I, e, c, a, p}.  Represent the above information on the Venn diagram below.  (**3marks**)   |  | | --- | | M N | | | |
| b) | Find the value of n(M-N)  **(2marks)** | c) | How many more girls than boys are in the class? |
| 24  a) | In a class of 40 pupils, are boys and the rest are girls.  What is the fraction of girls?  **(1mark)** | b) | How many boys are in the class? **(2marks)** |
| 25 | Study and complete the magic square below.   |  |  |  | | --- | --- | --- | | 4 | 3 | a | | b | 5 | 1 | | 2 | c | 6 | | | |
| a) | Workout the magic sum  **(2marks)** | b) | Find the value of a, b and c  **(3marks)** |
| 26. | Using a ruler, a pencil and a pair of compasses only.  Construct a rectangle ABCD where AB=5cm and Line BD=3cm  **(5marks)** | | |
| 27.  a) | Find the size of the unknown angles in degrees. **(2marks)**  **P**  **370** | b) | K **(2marks)**  300 1200 |
| c) | **(1mark)**  m 1350 | | |
| 28.  a) | Kato went shopping with sh.50,000 and bought the following items.  2 bars of soap at sh.4000 a bar , Sh.4000 a bar.  2kg of rice at Sh.1500 each kg.  3 loaves of bread at Sh.15,000.  Calculate Kato’s total expenditure. **(4marks)** | | |
| b) | How much change did he remain with after buying all the items?  **(2marks)** | | |
| 29.  a) | Study the factor set below and use it to answer the question that follow.  F12 FX    21 31  51  K  Find the value of X **(1marks)** | b)  c) | Find the value of K. **(2marks)** |
| Calculate the LCM of 12 and X.  **(2marks)** |
| 30  a)  31.  a) | Below is a rectangular prism.    3cm  4cm  5cm  Calculate its Volume.  **(3marks)**  Given that a = 5, b = 6 and c = 3  Find the value of;  a + b + c **(1mark)** | b)  c)  b) | How many vertices does the figure have? **(1mark)** |
| Find the area of the shaded part? **(2marks)**  **(2marks)** |
| c) | 4c – b **(2marks)** | | |
| 32. | The table below shows the number of cars in a certain mall parking. Use it to answer questions that follow.  a) Complete the tally table below. **(5marks)**     |  |  |  | | --- | --- | --- | | **Colour** | **Number of cars** | **Tallies** | | Red | 10 | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | White | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | | Black | 12 | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | Yellow | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | | Grey | 8 | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |