Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Use the following to review for you test. Work the Practice Problems on a separate sheet of paper if needed.** | | | |
| **What you need to know & be able to do** | **Things to remember** | **Problem** | **Problem** |
| Find the solution of a system of linear equations by **graphing**. | * Get “y” by itself. * Identify the slope (m) and the y-int (b) * y = mx + b * Check your answer! |  |  |
| Find the solution of a system of linear equations by **substitution**. | * Solve one of the equations for a variable (either x or y). * Substitute into the other equation. * Plug back into the ORIGINAL! * Check your answer! |  |  |
| Find the solution of a system of linear equations by **elimination**. | * Decide which variable you want to get rid of. * Make sure the coefficients are opposite * Add the two equations. * Solve for the variable. * Substitute back into the original. * Check your answer! |  |  |
| Find the solution of a system of linear equations by **the best method**. | * Check if a pair is already opposite for elimination. * Check to see if either equation is already solved for a variable for substitution. * Check to see if the equations are already in slope-intercept form. |  |  |
| Solving a System of Linear Equations Word Problem | * Define x and y. * Set up two equations. * Decide the best method. * Solve. * End with words! | 1. Amy’s school is selling tickets to a choral performance. A senior citizen’s ticket is $6 and a child’s ticket is $15. If they made $810 dollars and sold a total of 72 child and senior citizen tickets, how many of each ticket did they sell? | 1. The band is selling wrapping paper for a fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. The band sold a total of 55 rolls and made $950. If a roll of plain costs $14 and a roll of shiny costs $20, how many rolls of each did they sell? |
| Graphing a system of linear inequalities. | * Make sure both equations are in slope-intercept form. * Decide if the lines will be solid or dashed. * Graph the lines. * Test a point-typically (0,0). * Shade appropriately. |  |  |