**Directed Reading Activity**

**Introduction to Matrices:**

1. Turn to page 154 of your textbook. Define the following words

 A. matrix

 B. element

 C. dimensions

 D. order

 E. row matrix

 F. column matrix

 G. square matrix

 I. zero matrix

2. When are 2 matrices considered to be equal matrices?

3. List an example of 2 equal matrices below:

4. List an example of 2 unequal matrices below:

5. Read and write example 3, page 155, below. Write the initial problem and how they solved the problem below: (if you have different colored pencils, use them as well)

6. Do problems 4 through 7 below: Make sure you write out the initial problem. Check your answers for numbers 5 and 7 in the back of the book.

 4. 5.

 6. \*7.

7. If you have a question about anything, ask your partner, if you still have one, come ask me now. If not, move on to number 8.

8. Now do problems 10 through 15 below. All you are doing is the dimension of a matrix. Remember, the number of rows (horizontals) comes first and columns (up and down) come second. Just write your answers below:

 10. 11. 12.

 13. 14. 15.

9. Ok, onto to the real problems. Make sure you write the initial problem and the equations that you set up. The first four problems are fairly easy. Do problems 16, 17, 18, and 19 below.

 16.

 17.

 18.

 19.

9. Now the real tough ones. Try number 22 below. You will use substitution to help you solve the problem.

10. Now do number 24 below. Start off by finding y in the lower right. Then you can substitute and get the x.

11. Now do number 25 below. Make sure you write the equation and the answer.

12. Lastly, do number 36, page 158. It’s basically a system of equations, in which you can use substitution to solve for the answer. Again, write the problem and the answer.