**Multiplying Matrices**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour\_\_\_\_\_\_\_\_\_

**Examples:**

1. 

2. How many times did you add that matrix to itself? \_\_\_\_\_\_

3. Rewrite problem #1 as a *multiplication problem.*

4. Write the matrix [S] and find the answer, where [S] =

5.

6.

7.

Multiply:

8.

\frac{1}{2}\begin{bmatrix}
2 & 6 & 4\\
9 & n & 8
\end{bmatrix}

10.

3[2 \quad 3 \quad 4]\begin{bmatrix}
5\\
-6\\
7
\end{bmatrix}

12.

[3 \quad 6 \quad 7]\begin{bmatrix}
x\\
y\\
z
\end{bmatrix}

Solve for x:

14.

2[7 \quad x \quad 3]\begin{bmatrix}
x\\
x\\
5
\end{bmatrix}=[6]

9.

11.

13.

15.