Name _____ Date _____

Unique Properties of Matrix Operations - Matching Worksheet

Write the letter of the answer that matches the problem.

_____ 1. What are the dimensions of each matrix?

$$A = \begin{bmatrix} 3 \\ 9 \\ 9 \end{bmatrix} + \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 5 \\ 4 \\ 2 \end{bmatrix}$$

_____ 2. This the sum of how many matrices?

$$B = \begin{bmatrix} 5 \\ 7 \\ 7 \end{bmatrix} + \begin{bmatrix} 3 \\ 2 \\ 2 \end{bmatrix} + \begin{bmatrix} 8 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 16 \\ 10 \\ 9 \end{bmatrix}$$

_____ 3. Are the differences defined?

$$L = \begin{bmatrix} 4 & 7 \\ 0 & 3 \end{bmatrix} - \begin{bmatrix} 1 & 0 & 0 \\ 1 & 2 & 0 \end{bmatrix}$$

_____ 4. What are the dimension of matrix

$$P = 3[8 \;\; 8] - [6 \;\; 5]$$

_____ 5. Calculate the value of these matrices.

$$T = 5[1 \;\; 2] - [4 \;\; 12]$$

a. [1, 2]

b. 1 by 2

c. 3

d. 3 rows and 1 column

e. No- 2 rows and 2 columns and second - 2 rows and 3 columns the two matrices do not have the same number of columns.