Name _____ Date _____

Year Group _____

Match the following matrices with the correct label

$$A = \begin{bmatrix} 1 & 2 \\ 4 & 3 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 3 & 7 \end{bmatrix} \quad C = \begin{bmatrix} 1 & 2 \\ 5 & 3 \\ 4 & 6 \end{bmatrix} \quad D = \begin{bmatrix} 1 \\ 3 \end{bmatrix} \quad E = \begin{bmatrix} 1 & 9 \end{bmatrix}$$

1. 1 x 2 = _____ 2. 2 x 1 = _____ 3. 2 x 2 = _____

4. 2 x 3 = _____ 5. 3 x 2 = _____

Use the following matrix to answer the questions below

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

6. What is the element of $a_{1,2}$? Answer = _____
7. What is the element of $a_{2,3}$? Answer = _____
8. What is the element of $a_{3,2}$? Answer = _____

Use the following matrices to answer the questions below

$$A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix} \quad B = \begin{bmatrix} 1 \\ 5 \\ 7 \end{bmatrix} \quad C = \begin{bmatrix} 1 & 2 \\ 4 & 3 \end{bmatrix} \quad D = \begin{bmatrix} 1 & 2 \\ 5 & 3 \\ 4 & 6 \end{bmatrix}$$

9. We want to multiply two matrices and if our first matrix is 2 x 3, how many of the matrices above can be our second matrix?

Answer = _____

10. We want to add two matrices and if our first matrix is 3 x 2, how many of the matrices above can be our second matrix?

Answer = _____