

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. $1 \times 2 =$ _____ 2. $2 \times 1 =$ _____ 3. $2 \times 2 =$ _____

4. $2 \times 3 =$ _____ 5. $3 \times 2 =$ _____

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 2×3 , 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 3×2 , how many of the matrices above can be our second matrix?

Answer = _____