

# Linear Algebra

## Foundations #3-

### Matrix Multiplication

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Two matrices of size 2x2 are multiplied as shown below. Find the integers  $A$ ,  $B$ ,  $C$ ,  $D$  in the resultant matrix.

$$\begin{bmatrix} 1 & 2 \\ 2 & 3 \end{bmatrix} \times \begin{bmatrix} 4 & 5 \\ 7 & 8 \end{bmatrix} = \begin{bmatrix} A & B \\ C & D \end{bmatrix}$$

In the text box below, enter each of the four integers,  $A$ ,  $B$ ,  $C$ ,  $D$  on a new line.