

Process of _____ matrices:

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} e & f & g \\ h & i & j \end{bmatrix}$$

Use the given matrices and perform the indicated operations, if possible:

$$A = \begin{bmatrix} 3 & 4 \\ 5 & 6 \end{bmatrix} \quad B = \begin{bmatrix} -3 & -4 & -5 \\ -1 & -2 & -3 \end{bmatrix} \quad C = \begin{bmatrix} 6 & 8 & 10 \\ 10 & 4 & 2 \\ -3 & 0 & 5 \end{bmatrix} \quad D = \begin{bmatrix} 3 & 6 \\ 9 & 12 \end{bmatrix}$$

1. AB

2. DA

3. BD

What observations can you make about multiplying matrices?