



# Scalar Multiplication of Matrices

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Name : \_\_\_\_\_ Date: \_\_\_\_\_

When you multiply a matrix by a scalar (just a number) the constant,  $c$ , is multiplied to each and every element in the matrix.

$$cB = \begin{bmatrix} c \cdot b_{1,1} & c \cdot b_{1,2} & \dots & c \cdot b_{1,n} \\ c \cdot b_{2,1} & c \cdot b_{2,2} & \dots & c \cdot b_{2,n} \\ \vdots & \vdots & \ddots & \vdots \\ c \cdot b_{m,1} & c \cdot b_{m,2} & \dots & c \cdot b_{m,n} \end{bmatrix}$$

Multiply Matrices by Scalars	Matrix Equations – Scalar Multiplication
	
Question/Solution	Question/Solution