Name _____ Date _____

Multiply Matrices by Scalars to Produce New Matrices - Guided Lesson Explanation

Explanation # 1

The original matrix must be multiplied in order to fill in the missing number.

$4\begin{bmatrix}2\\4\end{bmatrix} = \begin{bmatrix}8\\16\end{bmatrix}$ the missing number is 4(4), which is 16.

Explanation # 2

Multiply the original matrix to fill in the missing number.

$5\begin{bmatrix}5\\8\end{bmatrix} = \begin{bmatrix}25\\40\end{bmatrix}$ the missing number is 5(8), which is 40.

Explanation # 3

Take the product of 6 and 8 to find the missing number and fill in the column in the second matrix.

$6\begin{bmatrix}4\\8\end{bmatrix} = \begin{bmatrix}24\\48\end{bmatrix}$ the missing number is 6(8), which is 48.