Name_____ Linear Algebra; Quiz 5

1) Suppose the matrix $\begin{bmatrix}1 & 0\\2 & 1\end{bmatrix}$ is multiplied by another matrix, such as for instance $\begin{bmatrix}1 & 0\\2 & 1\end{bmatrix} \cdot \begin{bmatrix}10 & 6\\5 & 8\end{bmatrix}$. Describe in a single sentence, phrase, or mathematical expression what occurs during this multiplication (without referencing matrix multiplication or the specific example given).

2) Find the inverse of the matrix below.

$$\begin{bmatrix}2 & 4 & 0\\0 & 1 & 2\\0 & 1 & 3\end{bmatrix}$$