

18
From the following augmented matrix, first write the system of equations that represents the augmented matrix and then create a real-world word problem that would represent these equations and their unknowns. Be creative.

$$\left[\begin{array}{ccc|c} 1 & 1 & 1 & 100 \\ 5 & -3 & 0 & 10 \\ 0 & 3 & 4 & 290 \end{array}\right] \begin{array}{l} x \\ y \\ z \end{array} = \begin{array}{l} 100 \\ 10 \\ 290 \end{array}$$