

$$\begin{cases} 15x + 25y + 45z = 950 \\ x + y + z = 38 \\ y = 2z + 8 \end{cases}$$

$$\begin{cases} y = 2z + 8 \\ x = 30 - 3z \\ 450 - 45z + 50z + 200 + 45z = 950 \end{cases}$$

$$\begin{cases} z = 6 \\ y = 20 \\ x = 12 \end{cases}$$