

Part at 15.5% = x

Part at 14.25% = y

System I came up with:

$$\begin{cases} 15.5x + 14.25y = 6000 \\ 3.5x + 3.5y = 3150 \end{cases}$$

Work:

$$\begin{array}{r} 60x + 57y = 24000 \\ 7x + 7y = 6300 \\ \hline 420x + 399y = 168000 \\ -420x - 420y = 378000 \\ \hline -21y = -210000 \\ y = 10000 \end{array}$$
$$\begin{array}{r} 7x + 7(10000) = 6300 \\ \hline 7x + 70000 = 6300 \\ \hline 7x = -63700 \\ \hline x = -9100 \end{array}$$