

53 The upper left boundary is given by $25h - 7w = 800$ or $h = \frac{7w + 800}{25}$. The region is below and includes this line, which is described by $h \leq \frac{7w + 800}{25}$ or $25h - 7w \leq 800$. The lower right boundary of this region is given by $5h - w = 170$. The region is above and includes this line, which is described by $5h - w \geq 170$. Thus, the region can be described by the system of inequalities:
 $25h - 7w \leq 800, 5h - w \geq 170.$