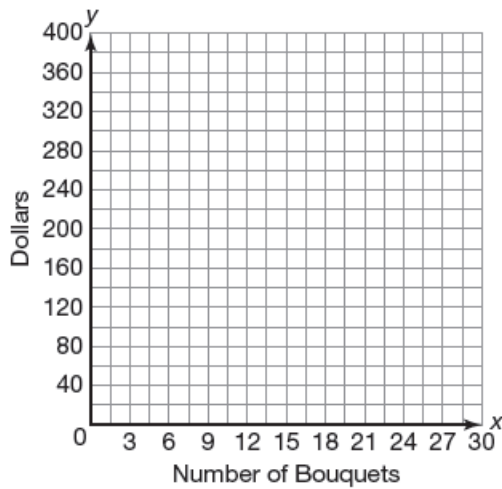


Write a system of linear equations to represent each problem situation. Define each variable. Then, graph the system of equations and estimate the break-even point. Explain what the break-even point represents with respect to the given problem situation.

Jerome sells flowers for \$12 per bouquet through his Internet flower site. Each bouquet costs him \$5.70 to make. Jerome also paid a one-time fee of \$150 for an Internet marketing firm to advertise his company.



Solve each system of equations by substitution. Determine whether the system is consistent or inconsistent.

$$\begin{cases} 0.8x - 0.2y = 1.5 \\ 0.1x + 1.2y = 0.8 \end{cases}$$

$$\begin{cases} \frac{1}{2}x + \frac{3}{2}y = 4 \\ \frac{2}{3}x - \frac{1}{3}y = 7 \end{cases}$$