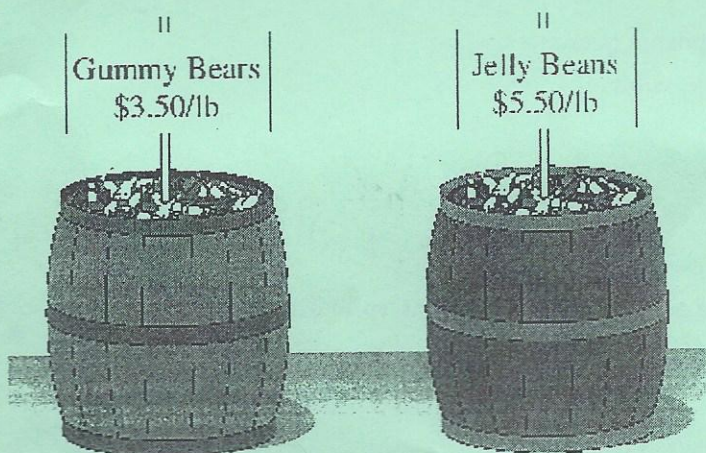


3. Solve the system. To do so, substitute a for $\frac{1}{x}$ and b for $\frac{1}{y}$ and solve for a and b . Then find x and y using the fact that $a = \frac{1}{x}$ and $b = \frac{1}{y}$.

$$\begin{cases} \frac{1}{x} + \frac{1}{y} = \frac{5}{6} \\ \frac{1}{x} - \frac{1}{y} = \frac{1}{6} \end{cases}$$

- a. (-2, -3)
 b. (-2, 3)
 c. (2, 3)
 d. (-3, -2)
 e. (3, 2)

4. How many pounds of each candy shown in the illustration must be mixed to obtain 80 pounds of candy that would be worth \$4 per pound?



- a. Gummy Bears: 60 lb; Jelly Beans: 21 lb
 b. Gummy Bears: 58 lb; Jelly Beans: 20 lb
 c. Gummy Bears: 60 lb; Jelly Beans: 20 lb
 d. Gummy Bears: 59 lb; Jelly Beans: 21 lb
 e. Gummy Bears: 59 lb; Jelly Beans: 20 lb

5. Solve the system. If a system is inconsistent or if the equations are dependent, so indicate.

$$\begin{cases} 4x + 2y + 3z = 6 \\ 2x - 3y - 4z = -4 \\ 8x + 4y + 6z = 12 \end{cases}$$

- a. (3, 0, 3)
 b. The system is inconsistent
 c. (3, -1, -3)
 d. The equations are dependent
 e. (3, 0, -3)