

$$\text{Peanuts} = \frac{\$1.20}{100 \text{ g}} \quad \text{Almonds} = \frac{\$2.00}{100 \text{ g}} \quad \text{Mixed} = \frac{\$1.50}{100 \text{ g}}$$

$$\text{Almonds} + \text{Peanuts} = 300 \text{ g}$$

$$\textcircled{1} \quad 1.2p + 2a = \underline{4.5} \quad \leftarrow \text{paying } \$4.50$$

$$\textcircled{2} \quad p + a = 3$$

$$\begin{array}{r} 1.2p + 2a = 4.5 \\ -(2p + 2a = 6) \\ \hline -0.8p = -1.5 \end{array}$$

$$p = \frac{-1.5}{-0.8}$$

$$p = 1.875$$

$\leftarrow$  this is per 100  
so we multiply by 100  
to get 187.5 g of  
peanuts.

$$300 - 187.5 = 112.5 \text{ g of Almonds}$$

practice test #9

$$986 = 38 \text{ g} + f$$

$$480 = 15 \text{ g} + f$$

$$f = f$$

$$986 - 38 \text{ g} = 480 - 15 \text{ g}$$

$$986 - 480 = -15 \text{ g} + 38 \text{ g}$$

$$506 = 23g$$

$$\frac{506}{23} = g$$

$$22 = g$$

\$22 per game

$$480 = 15(22) + f$$

$$480 - 15(22) = f$$

$$150 = f$$

\$150 annual fee

9.1/c)  $y = (x - 7)$   
 $x + y = 17$

$$x + (x - 7) = 17$$

$$x + x - 7 = 17$$

$$2x - 7 = 17$$

$$2x = 17 + 7$$

$$x = \frac{24}{2}$$

$$x = 12$$

$$x + y = 7$$

$$12 + y = 7$$

$$y = 7 - 12$$

$$y = -5$$