

$$\begin{array}{r}
 51.) (3B + 2E = 7.45) \cdot 2 \\
 (2B + 3E = 6.45) \cdot 3 \\
 \hline
 -6B - 4E = -14.90 \\
 6B + 9E = 19.35 \\
 \hline
 5E = 4.45 \\
 E = \$1.89
 \end{array}$$

$$\begin{array}{r}
 3B + 2(1.89) = 7.45 \\
 3B + 1.78 = 7.45 \\
 3B = 5.67 \\
 B = \$1.89
 \end{array}$$

RETURN 2 PAKS OF
BACON & 2 CARTONS OF
EGGS!

$$2(1.89) + 2(.89) = \boxed{\$5.56}$$

53) Mixing 2 liquids to get 40 mg Vit C and 30 mg Vit D. One liquid contains 20% Vit C and 30% Vit D. The other is 40% Vit C and 20% Vit D. How many mg of each?

x = amount of liquid 1 y = amount of liquid 2.

$$.2x + .4y = 40 \quad \leftarrow \text{Amount of Vit C}$$

$$-2(.3x + .2y = 30) \quad \leftarrow \text{Amount of Vit D}$$

$$-.6x + -.4y = -60$$

$$.2x + .4y = 40$$

$$\underline{-.4x = -20}$$

$$\underline{-.4 \quad -4}$$

$$\boxed{x = 50 \text{ mg of Liquid 1}}$$

$$.2(50) + .4y = 40$$

$$10 + .4y = 40$$

$$.4y = 30$$

$$\boxed{y = 75 \text{ mg of Liquid 2}}$$