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## Chapter 2

### SYSTEMS OF LINEAR EQUATIONS AND MATRICES

#### 2.1 Solution of Linear Systems by the Echelon Method

**Year Turn 1**

$$2x + 3y = 12 \quad (1)$$

$$3x - 4y = 1 \quad (2)$$

Use row transformations to eliminate  $x$  in equation (2).

$$2x + 3y = 12$$

$$3R_1 + (-2)R_2 \rightarrow R_2 \quad 17y = 34$$

Now make the coefficient of the first term in each equation equal to 1.

$$\frac{1}{2}R_1 \rightarrow R_1 \quad x + \frac{3}{2}y = 6$$

$$\frac{1}{17}R_2 \rightarrow R_2 \quad y = 2$$

Back-substitute to solve for  $x$ .

$$x + \frac{3}{2}(2) = 6$$

$$x + 3 = 6$$

$$x = 3$$

The solution of the system is  $(3, 2)$ .

**Year Turn 2**

Let  $x$  = number of shares of Kohl's stock

$y$  = number of shares of Best Buy stock

$$x + y = 188 \quad (1)$$

$$32x + 27y = 8601 \quad (2)$$

**Year Turn 3**

Since there are 60 utensils with a total weight of 189.6 pounds, the equations of Example 3 become

$$x + y + z = 60 \quad (1)$$

$$3.9x + 3.6y + 3.0z = 189.6 \quad (2)$$

where  $x$  = the number of knives,  $y$  = the number of forks, and  $z$  = the number of spoons.

$$x + y + z = 60$$

$$3.9R_1 + (-1)R_2 \rightarrow R_1 \quad 0.3y + 0.9z = 44.4$$

$$x + y + z = 60$$

$$\frac{-1}{0.3}R_1 \rightarrow R_1 \quad y + 3z = 148$$

Solve for  $y$  in terms of the parameter  $z$ :  $y = 148 - 3z$

Substitute this expression into equation (1).

$$x + (148 - 3z) + z = 60$$

Then solve for  $x$ .

$$x = 2z - 88$$

Since both  $x$  and  $y$  must be nonnegative, we have:

$$3z \leq 148 \quad \text{or} \quad z \leq \frac{148}{3} \quad \text{so} \quad z \leq 49$$

$$2z \geq 88 \quad \text{or} \quad z \geq 44$$

The largest number of spoons is thus 49; the

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**B Lingard**



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