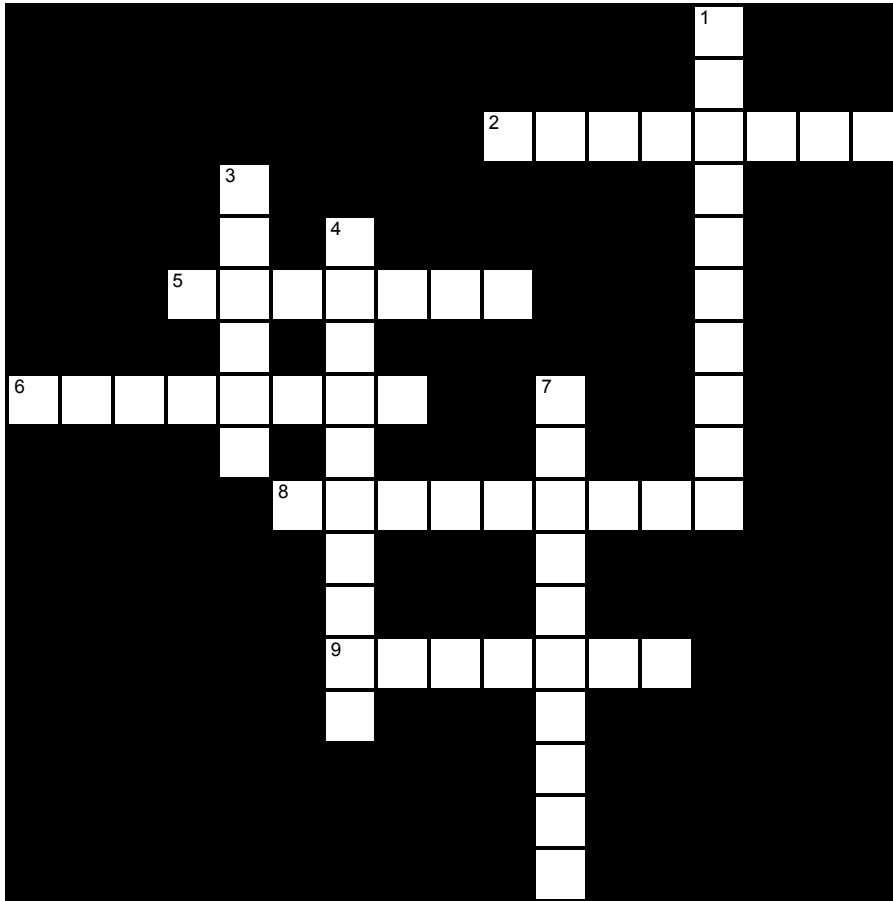


# Anderson, Sweeney, Williams, Wisniewski: An Introduction to Management Science Chapters 4-6



**Across**

- 2 The row in the simplex tableau corresponding to the basic variable that will leave the solution. (5,3)
- 5 '\_\_\_\_ method', a common algebraic procedure for solving linear programming problems. (7)
- 6 '\_\_\_\_ variable', one of n-m variables set equal to zero in a basic solution. (8)
- 8 A \_\_\_\_\_ form for a maximization problem has all less-than- or-equal-to constraints and nonnegativity requirements for the decision variables. (9)
- 9 'Simplex \_\_\_\_\_', a table used to keep track of the calculations required by the simplex method. (7)

**Down**

- 1 In linear programming, a type of variable that is added to a constraint taking the form  $\geq$  or  $=$  to enable a basic feasible solution to be created for starting the simplex method. (10)
- 3 '\_\_\_\_ problem', the original formulation of a linear programming problem. (6)
- 4 'Range of \_\_\_\_\_', the range of values over which an objective function coefficient may vary without causing any change in the values of the decision variables in the optimal solution. (10)
- 7 A vector or column of a matrix that has a zero in every position except one. In the nonzero position there is a 1. There is a unit column in the simplex tableau for each basic variable. (4,6)