Linear Programming Model: Standard Form

Max $Z = 40x_1 + 50x_2 + s_1 + s_2$

subject to: $1x_1 + 2x_2 + s_1 = 40$

$\qquad 4x_2 + 3x_2 + s_2 = 120$

$\qquad x_1, x_2, s_1, s_2 \geq 0$

Where:

x_1 = number of bowls

x_2 = number of mugs

s_1, s_2 are slack variables

Figure 2.14 Solution Points A, B, and C with Slack

Introduction To Linear Programming Solution Manual

Vasek Chvatal

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