Linear Programming Model: Standard Form

$$\text{Max } Z = 40x_1 + 50x_2 + s_1 + s_2$$

subject to:
$$1x_1 + 2x_2 + s_1 = 40$$
$$4x_2 + 3x_2 + s_2 = 120$$
$$x_1, x_2, s_1, s_2 \geq 0$$

Where:

x_1 = number of bowls
x_2 = number of mugs
s_1, s_2 are slack variables

Within the figure:

$4x_1 + 3x_2 + s_2 = 120$

$x_1 + 2x_2 + s_1 = 40$

$x_1 = 0$
$x_2 = 20$
$s_1 = 0$
$s_2 = 60$

$x_1 = 24$
$x_2 = 8$
$s_1 = 0$
$s_2 = 0$

$x_1 = 30$
$x_2 = 0$
$s_1 = 10$
$s_2 = 0$

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

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