

# The “Roll-over” Optimization Problem

---

$$\text{Score} = ((60 - (a+b+c+d+e)) * F + a * \text{ps1} + b * \text{ps2} + c * \text{ps3} + d * \text{ps4} + e * \text{ps5})$$

Objective:

Given values for F, ps1, ps2, ps3, ps4, ps5

Find values for a, b, c, d, e that maximize score

Constraints:

a, b, c, d, e are each 10 or 0

$a + b + c + d + e \geq 20$