

$$\begin{aligned}\pi_1 = & 100 - a_1 - b_1 + \frac{a_1b_1}{(a_1b_1)+(a_2b_2)+(a_3b_3)+(a_4b_4)} \\ & \times [1, 5(b_1+b_2+b_3+b_4) + (a_1+a_2+a_3+a_4)]\end{aligned}$$