

Let  $V_1, V_2$  be a partition of the vertex set in a graph  $G$ , and let  $\gamma_i$  denote the least number of vertices needed in  $G$  to dominate  $V_i$ . We prove that  $\gamma_1 + \gamma_2 \leq \frac{4}{5} |V(G)|$  for any graph without isolated vertices or edges, and that equality occurs precisely if  $G$  consists of disjoint 5-paths and edges between their centers. We also give upper and lower bounds on  $\gamma_1 + \gamma_2$  for graphs with minimum valency  $\delta$ , and conjecture that  $\gamma_1 + \gamma_2 \leq \frac{4}{\delta+3} |V(G)|$  for  $\delta \leq 5$ . As  $\delta$  gets large, however, the largest possible value of  $(\gamma_1 + \gamma_2) / |V(G)|$  is shown to grow with the order of  $\frac{\log \delta}{\delta}$ .