



The diagram illustrates a grid-based representation of a shape and its neighborhood. A 10x10 grid of squares is shown. A central, irregular polygon, filled with diagonal hatching and labeled "HOLE", is the primary focus. This polygon is surrounded by a set of gray-shaded squares, which represent the immediate neighborhood or a dilation of the hole. A red border, one square thick, encloses the entire gray-shaded region, defining a larger area of interest or a buffer zone around the hole.

HOLE