



Find Area

CA Standard
KEY MG 1.2

Use the diagram to solve each problem.

- The diagram at the right shows the design of a tiled patio. The patio surrounds a fountain in Jefferson Park. Each tile on the patio covers 1 square foot. What is the area of the patio, in square feet?

- Which has the greater area, the patio or the fountain? How much greater, in square feet?

- The city is replacing the tiles on the patio around the fountain next year. Each tile costs \$4. How much will it cost to replace all the tiles?

- The new patio will have alternating black and white tiles. How many of each color tile should the city planners buy?

- Suppose the city adds a border of blue tiles around the outside of the patio. The border will be 1 tile wide. The blue tiles are the same size as the tiles on the patio. How many tiles will be needed to make the border?

- Suppose the city decides to reduce the area of the fountain to 5 square units. By how many units would the area of the patio increase?

Show your work

