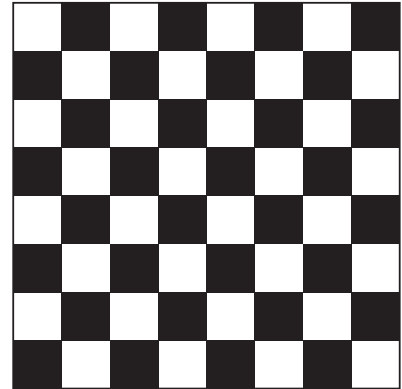




# Perimeter and Area of Complex Figures

**CA Standards**  
MG 1.4, AF 1.4

The Mayo family is planning to put a new tile floor in their kitchen. They are going to lay black and white tiles in a checkerboard pattern. The tiles are 12-inch squares. Use the grid below to solve the problems.



- 1.** The grid shows the pattern for the new tile floor. Tell the shape and size of the floor.

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- 3.** The white tiles cost \$1.60 each. The black tiles cost \$1.80. How much will all the tiles cost?

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- 5.** Mr. Mayo plans to install a piece of wood trim all around the edge of the floor. He won't use the wood trim across the two 3-foot door openings. The wood trim is sold in 12-foot lengths. Write a formula that will help Mr. Mayo decide how much wood trim to buy.

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- 2.** Write a formula that will tell the Mayos how many tiles they need to buy.

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- 4.** A tube of tile glue will cover 25 square feet. They are planning to buy 3 tubes of glue. Will that be enough?

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- 6.** Mrs. Mayo wants to lay a new floor in the hallway to the kitchen. The hallway measures 3 feet by 5 feet. How many more tiles and wood trim will they need if they tile the hallway?

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