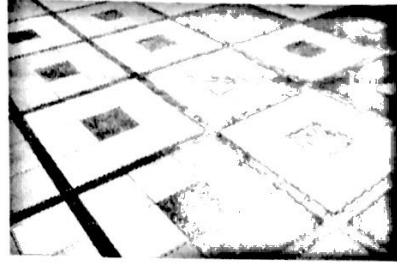


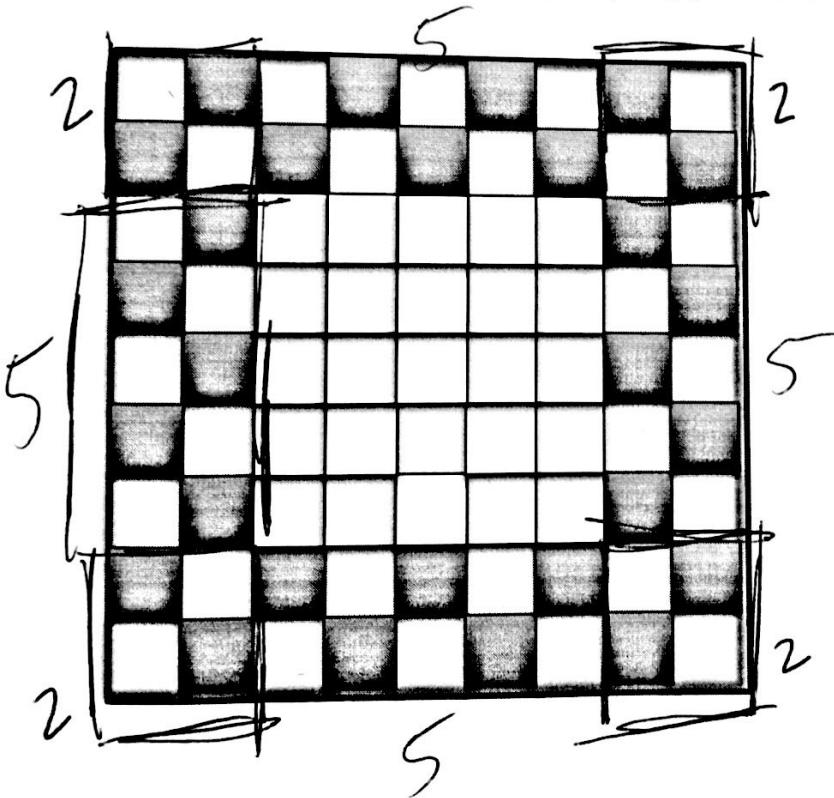
## 1.1 Checkerboard Borders

*A Develop Understanding Task*CC BY <https://flic.kr/p/nWb95j>

In preparation for back to school, the school administration plans to replace the tile in the cafeteria. They would like to have a checkerboard pattern of tiles two rows wide as a surround for the tables and serving carts.

Below is an example of the boarder that the administration is thinking of using to surround a square 5 x 5 set of tiles.

- A. Find the number of colored tiles in the checkerboard border. Track your thinking and find a way of calculating the number of colored tiles in the border that is quick and efficient. Be prepared to share your strategy and justify your work.



$$5(4) + 8$$

$$= 28$$

Possible student strategies.

