

This miniproject asks you to investigate tilings of a checkerboard. For a description of what a tiling and a right triomino are, see pages 97–100 in section 1.7. You may also want to look at Example 13 in Section 4.1.

- (a) Construct a tiling of a 4×4 checkerboard with one corner removed using right triominoes.
- (b) Construct a tiling of a 8×8 checkerboard with one corner removed using right triominoes.
- (c) Construct a tiling of a 5×5 checkerboard with one corner removed using right triominoes.
- (d) Prove that for n a non-negative integer a $(5 \cdot 2^n) \times (5 \cdot 2^n)$ checkerboard with one corner removed can be tiled with right triominoes.