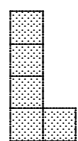


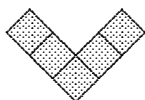
# LV MIN PUZ

(FIFTY-FIVE MINUTE PUZZLE)

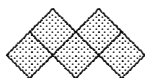
Each of the pieces in this puzzle have shapes formed from five squares connected along their edges, and form the letters of this puzzle's name.



L



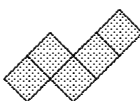
V



M



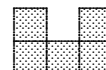
I



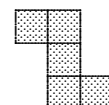
N



P



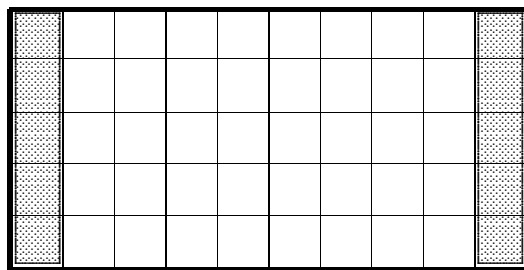
U



Z

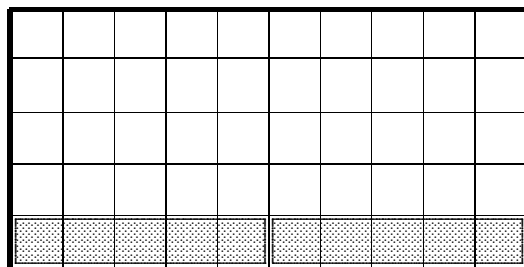
These eight pieces have a combined area of  $8 \times 5 = 40$ . This suggests two puzzles:

**Puzzle 1.** Will these eight pieces fit into a  $5 \times 8$  rectangle? (To make a  $5 \times 8$  rectangle, place the extra two I tiles of the same wood along the left and right vertical edges of the board, respectively.) How many solutions can you find? Is there a solution with the U piece in a corner; one in from the left edge; two in from the left edge?



$5 \times 8$  Rectangle

**Puzzle 2.** Will these eight pieces fit into a  $4 \times 10$  rectangle? (To make a  $4 \times 10$  rectangle, place the extra two I tiles of the same wood along the bottom edge of the board.) The picture shows one solution; can you find another? For example, is there a solution in which the L does not touch an edge?



$4 \times 10$  Rectangle