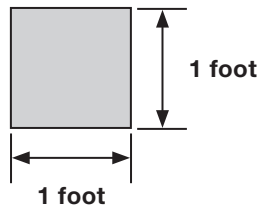


Dancing in TIMSville

The mayor of TIMSville wants to build a dance floor in the park for the TIMSville Music Festival. Design a dance floor for the festival using wood tiles like the one shown below. You may use a calculator to help you make your design.



Here are the mayor's rules for the design.

- The dance floor must fit in the park boundaries.
 - The dance floor cannot overlap the stage.
 - The dance floor must cover the shape of exactly two rectangles.
 - The dance floor must cover exactly 850 square feet.
1. Use the *TIMSville Dance Floor Worksheet* to figure out your design. (Hint: it is okay to try out different ideas on the worksheet and be “messy” as you do your work.)
 2. Use a ruler to make a final drawing of your design on the *TIMSville Dance Floor Final Design* page.
 3. On your final drawing, use paper-and-pencil strategies to show that your dance floor covers exactly 850 square feet.
 4. Describe how your team solved the problem on the *How We Designed the Dance Floor* page.

