Problem-Solving Strategy: Make a Model

Make a model to solve the following problems.

1. Mrs. Dolan wants to tile her kitchen floor with tiles in the shape of regular pentagons. Will regular pentagons tessellate?

   What is the question?
   __________________________________________

   What do you know about tessellations?
   __________________________________________

   Make models of congruent regular pentagons.
   __________________________________________

   Use translations to fit the regular pentagons together. Do they fit without gaps or overlaps?
   __________________________________________

   Does your answer make sense?
   __________________________________________

2. Mrs. Dolan decides to try tiling her kitchen with congruent isosceles right triangle tiles. Will congruent isosceles right triangles tessellate? Explain.

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