

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?

UNDERSTAND

What is the question?

What do you know about tessellations?

PLAN

Make models of congruent regular pentagons.

SOLVE

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

LOOK BACK

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.
