

Problem-Based Task: Stained Glass Pattern, Part I**Coaching**

- a. What are the properties of the sides and angles of a square?
- b. What are the properties of the sides and angles of a rhombus?
- c. Which sides in the pattern are congruent?
- d. How do you indicate on a diagram that sides are congruent?
- e. Mark the congruent sides on the diagram.
- f. Which angles are congruent?
- g. How do you indicate on a diagram that angles are congruent?
- h. Mark congruent angles on the diagram.
- i. Name one pair of congruent triangles. Justify your answer by indicating which corresponding parts are congruent.
- j. Name a second pair of congruent triangles. Justify your answer by indicating which corresponding parts are congruent.
- k. Name a third pair of congruent triangles. Justify your answer by indicating which corresponding parts are congruent.
- l. Name a fourth pair of congruent triangles. Justify your answer by indicating which corresponding parts are congruent.
- m. Are any pairs of triangles that you identified congruent? If so, name them.
- n. How can Mary use this information to plan her project?