

Problem-Solving Strategy: Use Logical Reasoning

Use the questions to help you solve.

1. Flora plans to use a quilt to show properties of angles for a math class presentation. Flora says that all straight angles are obtuse. She also says that some right angles are acute. Is Flora's reasoning correct?

UNDERSTAND

What do you know about angles?

PLAN

Draw a Venn diagram. Include the information you know about angles.

SOLVE

Study the Venn diagram. Use the words *all*, *some*, and *never* to write generalizations.

LOOK BACK

Does Flora's reasoning agree with yours?
Does your answer seem reasonable?

2. At each corner of Flora's quilt are squares, each with a diagonal. Flora says that the acute angles formed by these diagonals are complementary. Is Flora's reasoning correct? Explain.
