

## 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?

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### PLAN

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

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### SOLVE

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

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### LOOK BACK

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

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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.

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