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Cutting a Cube

PreK

Materials: One large cube for the teacher to use during discussion and small cubes for every student to hold and examine in their groups.

Discussion on the rug: The teacher holds up one large cube. "A cube is a very interesting object. So, we are going to examine it. What does examine mean? Who does examinations? What do you think are the parts of the cube we can examine?" The teacher asks questions to have the children think about parts, especially faces and corners, and maybe lines or edges.

In small groups: Each student is holding a cube. The teacher asks the following questions, only going on to the next question if students have success.

"We are going to examine our cube.

- 1. How many flat sides does a cube have?
- 2. How many corners does a cube have?
- 3. How many lines or edges does a cube have?"

At the end of the investigation, have students either discuss or dictate a response to this summary question: **"How can you remember the parts of a cube?"**

Inside Problem Solving

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