

Figure 5.1

Investigating Together: Uncovering Math Structure

- **Teacher provides an investigation topic**
[before class, during class]
- **Students investigate**
[on their own before class, in small groups in class]
- **Teacher introduces the topic: “What did you find out?”**
[at the start of class, after group work in class]
- **Students share individual or group discoveries**
[conjectures, hypotheses, ways to approach, difficulties they had]
- **Teacher draws these ideas out, gets group to expand on them, uses their ideas to connect to existing knowledge [math structure]**
- **Teacher [sometimes students] synthesizes discoveries regarding the course content**