Grade 3	Lesson: 11-8 Problem Solving: Solve a Simpler Problem	Reference to English

Math Standard(s): 3.G.2   **Domain: Geometry**

Content objective(s):	Language Objective(s):
Students will solve a problem by first solving a simpler problem. *我会先解答较容易的问题来解答一个问题。*	Students will explain how they broke down a problem to smaller problems. *我会解释我怎么把一个问题分成较容易的问题。*
Essential Understanding Some problems can be solved by breaking apart or changing the problem into simpler ones, solving the simpler ones, and using those solutions to solve the original problem.	**Required Academic Vocabulary for Word Wall:** **Listen:** **Read:** **Write:** **Speak:** **Sentence Frame:**
Materials: • Two-color tiles (or Teaching Tool 16 (8 per pair) • Guided and Independent Practice	**Additional Lesson Vocabulary:**

Lesson:	Instructional Time: 30 – 35 minutes

Opening: (10 minutes)
T: "今天我们会学习怎么把一个问题分开。有些问题看起来很难解答，我来给你一个例子。"–give at least 4 examples (use problems from page 293 in the textbook).
T: "今天我们会把这些困难的问题分成比较容易的问题来解答。"
• Start with one of the big problems you told them at the beginning. Break it down and then solve it as a class. (use problems from 293 in the textbook)

Introduction to New Material (Direct Instruction): (4 minutes)
• Use page 292B in the Teachers' Manual
• Pass out two colored tiles (1 set per pair)
T: "我们可以先解答什么比较容易的问题来帮助我们找出 Lance 房间里的地毯有几个正方形？告诉你旁边的同学。"

Guided Practice: (7 minutes)
Use the modeling cycle:
Teacher Does:
• Done in Direct Instruction.
1 Students Does with Teacher:
2 Students Do:
All Students Do:
T: "与一个同学做出一个有不同大小正方形的图案，然后跟另一组交换并解答他们的图案里有几个正方形。"
T: "最后把 图案解释给原来的那组听。"

Independent Practice: (10 minutes)
• Read the problems on page 292 and 293 to the students. Solve as a class as needed.

Closing: (3 minutes)
• Finish off the day with one problem from page 293. Solve the whole problems as a class.

Assessment:

Guided and Independent Practice