

Problem Solving: Solve a Simpler Problem and Make a Table

Sam needs to cut a piece of sheet metal into 8 pieces. It takes him 5 minutes to make each cut.

1. **Writing to Explain** Why would you make a table to find the number of cuts Sam makes?

2. How many cuts will Sam make? _____

3. How long will it take Sam to turn the sheet metal into 8 pieces? Write your answer in a complete sentence.

Sarah is having a slumber party with her 11 friends and they are telling scary stories. They divide into 3 groups and each group tells a story. Each group member talks for 3 minutes.

4. How many people are in each group? _____
5. How many minutes does each group take to tell a story? _____
6. How many minutes does it take for all three groups to tell their stories? _____
7. If Sarah divided her friends into 4 groups and each person still got the same time to talk, how long would it take to tell the stories?

A 16 minutes **B** 36 minutes **C** 48 minutes **D** 144 minutes