

Tables and Chairs

Exploration Questions

1. Describe what happens to the number of chairs in a linear (straight) configuration each time you add a new table that can hold six chairs.
2. Describe what happens to the number of chairs in a rectangular configuration each time you increase the width by one table that can hold six chairs.
3. How many different rectangular configurations of tables that can hold six chairs will allow you to sit a total of 24 people? Show each of them.
4. Is there a pattern in question 3 that might help you find the different rectangular configurations of tables that can hold six people each that would sit a total of 40 people? If so, describe it.