

## Problems Demonstrating Availability

1. Consider the letter *L*. In the English language, is this letter more likely to appear in the first position of a word or the third position of a word? Give your intuition or “gut reaction.”
2. Ten students from a nearby college have indicated a willingness to serve on a curriculum committee. Their names are Ann, Bob, Dan, Elizabeth, Gary, Heidi, Jennifer, Laura, Terri, and Valerie.
  - a. The dean wants to form a two-person committee. What is your estimate of the number of distinct committees that could be formed? (Don’t use formulas; just respond intuitively.)
  - b. The dean wants to form an eight-person committee. What is your estimate of the number of distinct committees that could be formed? (Don’t use formulas; just respond intuitively.)
3. Consider the two structures shown below:

A

x x

x x

x x

x x

x x

x x

x x

x x

x x

B

x x x x x x x x

x x x x x x x x

x x x x x x x x

A *path* in a structure is a line that connects one “x” from each row, starting with the top row and finishing at the bottom row. How many paths do you think each structure has? (Again, give an intuitive estimate.)