13-1 Skills Practice
Representing Sample Spaces

Represent the sample space for each experiment by making an organized list, a table, and a tree diagram.

1. Michelle could take a summer job
   in California or Arizona at a hotel
   or a bed-and-breakfast.

2. Jeremy could go to baseball or
   soccer camp as a counselor or an
   assistant director.

3. Brad could buy his mom a $25 or
   $50 gift card for a spa or a
   housecleaning service.

Find the number of possible outcomes for each situation.

4. Marie's family is buying a house. They must choose
   one from each category.

House Plans	Number of Choices
Subdivision location	4
Floor plans	5
Garage size	2
Front yard landscape package	3
Backyard pool package	3

5. Mr. Thomson is choosing his cable TV.
   He must choose one from each category.

Cable TV Plans	Number of Choices
Channel packages	16
DVR system	3
Contract length	3
Service contract	2
Include phone	2
Include Internet	2

6. Valentine gift sets come with a choice of 4 different teddy bears, 8 types of candy, 5 balloon designs,
   and 3 colors of roses.

7. Joni wears a school uniform that consists of a skirt or pants, a white shirt, a blue jacket or sweater, white socks
   and black shoes. She has 3 pairs of pants, 3 skirts, 6 white shirts, 2 blue jackets, 2 blue sweaters, 6 pairs of
   white socks and 3 pairs of black shoes.