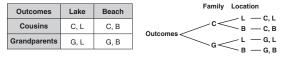
Practice 13-1

Representing Sample Spaces

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

1. Tavya can spend the summer with her cousins or her grandparents at the lake or at the beach.

CL,	CB,	GL,	GB



2. Jordan can write his final essay in class or at home on a scientific or an historical topic.

SC, SH, HC, HH



3. Julio can join the Air Force or the Army before or after college.

AF,	BC;	AF,	AC;
A, É	BC; A	 A (C (

Outcomes	Before College	After College	Military branch Time BC — AF. BC
Air Force	AF, BC	AF, AC	AF AC AF, AC
Army	A, BC	A, AC	A BC A, BC
			AC — A, AC

Find the number of possible outcomes for each situation.

4. Josh is making a stuffed animal.

Animal Options	Number of Choices	
Animals	10	
Type of stuffing	3	
Sound effect	5	
Eye color	3	
Outfit	20	

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5. Kelley is buying an ice cream cone. Assume one of each category is ordered.

Ice Cream	Number of Choices	
Type of cone	3	
Flavors	20	
Cookie toppings	4	
Candy toppings	8	

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6. Movie-themed gift baskets come with a choice of one of each of the following: 4 flavors of popcorn, 4 different DVDs, 4 types of drinks, and 8 different kinds of candy.

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7. INTERNSHIP Jack is choosing an internship program that could take place in 3 different months, in 4 different departments of 3 different firms. Jack is only available to complete his internship in July. How many different outcomes are there for Jack's internship?

8

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