

## Section 5.1 Reading Homework

### 1. Illegal Immigration

In May 2010, the Los Angeles City Council voted to ban most travel and contracts with the state of Arizona to protest Arizona's new immigration enforcement law. The *Los Angeles Times* conducted an online poll that asked if the City Council was right to pass a boycott of Arizona. The results showed that 96% of the 41,068 people in the sample said "No."

**Problem:** Does this result represent the opinions of all Los Angeles residents? Explain.

### 2. A Hotel on the Beach

The manager of a beach-front hotel wants to survey guests in the hotel to estimate overall customer satisfaction. The hotel has two towers, an older one to the south and a newer one to the north. Each tower has 10 floors of standard rooms (40 rooms per floor) and 2 floors of suites (20 suites per floor). Half of the rooms in each tower face the beach, while the other half of the rooms face the street. This means there are  $(2 \text{ towers})(10 \text{ floors})(40 \text{ rooms}) + (2 \text{ towers})(2 \text{ floors})(20 \text{ suites}) = 880$  total rooms.

**Problem:**

- (a) Explain how to select a simple random sample of 88 rooms.
- (b) Explain how to select a stratified random sample of 88 rooms.
- (c) Explain why selecting 2 of the 24 different floors would not be a good way to obtain a cluster sample.

### Mall Hours

The management company of a local mall plans to survey a random sample of 3 stores to determine the hours they would like to stay open during the holiday season.

**Problem:** Use Table B (back of book or in appendix) at line 101 to select an SRS of size 3 stores.

01 Aeropostale	08 Forever 21	15 Old Navy
02 All American Burger	09 GameStop	16 Pac Sun
03 Arby's	10 Gymboree	17 Panda Express
04 Barnes & Noble	11 Haggar	18 Payless Shoes
05 Carter's for Kids	12 Just Sports	19 Star Jewelers
06 Destination Tan	13 Mrs. Fields	20 Vitamin World
07 Famous Footwear	14 Nike Factory Store	21 Zales Diamond Store