1. In May 2015, 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.” Does this result represent the opinions of all Los Angeles residents? Explain.

2. 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.

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.

3. Which of the following are sources of sampling error and which are sources of nonsampling error? Explain your answers.

(a) The subject lies about past drug use.

(b) A typing error is made in recording the data.

(c) Data are gathered by asking people to mail in a coupon printed in a newspaper.