

Chapter 13 - Samples and Surveys

Exercises 22–23. List the characteristics of (a)–(f) on the basis of the brief description of the survey that is shown.

- (a) Population
- (b) Parameter of interest
- (c) Sampling frame
- (d) Sample size
- (e) Sampling design, including whether randomization was employed
- (f) Any potential sources of bias or other problems with the survey or sample

22. [Hotels.com](https://www.hotels.com) asks users to rate hotels that they have visited on a scale from 0 (worst) to 5 (best). Ninety-nine guests gave a hotel at the St. Louis Convention Center a 4.5 out of 5 rating.

23. A company packaging snack foods maintains quality control by randomly selecting 10 cases from each day's production. Each case contains 50 bags. An inspector selects and weighs two bags from each case.

31. Between quarterly audits, a company checks its accounting procedures to detect problems before they become serious. The accounting staff processes payments on about 120 orders each day. The next day a supervisor checks 10 of the transactions to be sure they were processed properly.

- (a) Propose a sampling strategy for the supervisor.
- (b) How would you modify the sampling strategy if the company makes both wholesale and retail sales that require different bookkeeping procedures?