

- 5.2 Identify the categories (people, organizations, physical things, conceptual things) of the objects you suggested in your answer to Question 5.1.
- 5.3 From the case study descriptions below, prepare a list of nouns for consideration as candidate objects. Reject those that would not form suitable objects, giving reasons for your rejection. List the remaining objects.
- a Mr Major, the town's only dentist, has a computer system to help him keep track of patients' appointments and dental treatment. Mr Major's receptionist makes appointments with patients either when they phone up or when they are back in the waiting room after treatment. Sometimes patients phone to cancel appointments or to change them. Mr Major keeps notes on the system about his patients' treatments – these are updated each time he sees a patient. The receptionist also makes out bills for patients and records payments on the system.
 - b Your local railway station is going to install automatic ticket dispensing machines. Each machine will be able to give passengers up-to-date train timetable and ticket price information. The machines must also issue tickets and transfer statistics about ticket sales to a central computer system. Railway staff must be able to update ticket prices and timetable information.
- 5.4 Suggest attributes for the following classes:
- a A Customer in a banking system.
 - b A library Member.
 - c A university Lecturer in a system for a university human resources department.
 - d A Student in a university enrolment system.
 - e A Patient in a dentist's system.
- 5.5 Items a–f in Table 5.2 list object-oriented concepts. Items 1–6 list short definitions. Match the concept to the definition that best describes it.
- 5.6 What information appears on an object diagram (such as the one in Figure 4.7 in Chapter 4) that is not shown on a class diagram such as the one in Figure 5.15 (in this chapter)?