

$$\begin{aligned} \text{orderLine} &= \text{product\#} + \text{productDescription} + \text{quantity} + \\ &\quad \text{productCost} + \text{costOfLine} \\ \text{total} &= \text{costOfOrder} + (\text{deliveryCharge}) + \text{amountOwing} \end{aligned}$$

- a Does a delivery address have to be recorded?
 - b Does the date required have to be recorded?
 - c How many first names or initials are recorded for each customer?
 - d Can an order have more than one order line?
 - e The delivery charge only applies if a customer lives more than ten miles away. How would you document this in the definition?
 - f It has been decided to modify the order line part of the definition to include product category. This can take one of five values: men's, women's, children's, outdoor, sport. Add this information to the data dictionary definition.
- 5.15 A textbook consists of a preface, between six and ten chapters, an optional glossary and a bibliography. Each chapter has an introduction, several sections and a summary, and the glossary contains lots of terms with their definitions. Write a data dictionary definition for a textbook as described here.
- 5.16 Figure 5.22 shows an example card used to record details of offers for properties in an estate agent's business. Write a data dictionary definition of the information held on the cards.