**17.6 Provide an example (in terms of companies with which you are familiar) for each of the business situations described by the following relationship cardinalities:**

**Use the two sentences**

1. **“one ‘sales’, must it be related to a ‘receive cash’? if no then 0 on min cardinality**
2. **“one ‘sales’, could it be related to many ‘receive cash’? If yes then crows foot**

**Then use the questions going the other way…**

**a**.



**b**.



**c**.



**d.**



**e**.













**17.7 Model the cardinalities of the following business policies:**

1. **The relationship between the Sale and Receive Cash events for installment sales.**



1. **The relationship between the Sale and Receive Cash events at a convenience store.**



**c**. **The Take Customer Order–Sale relationship in a situation when occasionally several shipments are required to fill an order because some items were out of stock.**



1. **The Sale-Inventory relationship for a custom homebuilder.**



1. **The relationship between the Sale and Receive Cash events for Dell computers, which requires customers to pay the entire amount of their purchase in advance, prior to Dell shipping the merchandise.**



1. **The relationship between the Sale and Receive Cash events for a retail store that has some in-store sales paid in full by customers at the time of the sale but that also makes some in-store sales to customers on credit, billing them later and permitting them to make installment payments.**



1. **The relationship between the Receive Inventory and Disburse Cash events in the case where suppliers require payment in advance, in full.**



1. **The relationship between the Call on Customers event (i.e., the visit by a salesperson to a potential customer) and the Take Customer Order event for a business that is only conducted door-to-door (e.g., kitchen knives, certain books, etc.) so that the only way to order the items is when a salesperson visits the customer. (*Hint:* do you think every call results in an order?)**



**i. The relationship between the Call on Customers and Take Customer Orders events for a manufacturer which also accepts orders on its Web site.**



1. **The relationship between the Receive Inventory and Disburse Cash events for a company which receives monthly bills from its suppliers for all purchases made the previous month; some suppliers require payment of the entire bill, in full, within 30 days or they will not accept any subsequent orders, but other suppliers accept installment payments.**

