1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ represents a real person, place, event, or transaction.

Answer:

object. See page 226.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the concept that a message can give different meanings to different objects.

Answer:

Polymorphism. See page 231.

1. A major advantage of object-oriented designs is that systems analysts can save time and avoid errors by using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ objects.

Answer:

modular. See page 232.

1. The strongest relationship, which enables an object to derive one or more of its attributes from another object, is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer:

inheritance. See page 234.

1. A use case is initiated by a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which is an external entity that requests the system to perform a function or process.

Answer:

actor. See page 235.

1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ documents the name of the use case, the actor, a description of the use case, a step-by-step list of the tasks and actions required for successful completion, a description of alternative courses of action, preconditions, postconditions, and assumptions.

Answer:

use case description. See page 236.

1. The first step in creating a use case diagram is to identify the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which shows what is included in a system and what is not included in the system.

Answer:

system boundary. See page 238.

1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ graphically documents the use case by showing the classes, the messages, and the timing of the messages.

Answer:

sequence diagram. See page 240.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are able to display multiple use cases in the form of a grid, where classes are shown as vertical bars and actions appear as horizontal arrows.

Answer:

Activity diagrams. See page 242.

1. After you identify the system’s objects, classes, and relationships, you should develop an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagram that provides an overview of the system.

Answer:

object relationship. See page 244.