1-4 Module One Quiz



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Written Jan 7, 2025 8:44 PM - Jan 7, 2025 9:06 PMAttempt 1 of 2

Attempt Score 45 / 45 - A

Overall Grade (Highest Attempt) 45 / 45 - A

**Question 1** 3.75 / 3.75 points

The symbol 0..1 in the following object relationship diagram represents what type of relationship? Select one.



None to one

None to many

One to many

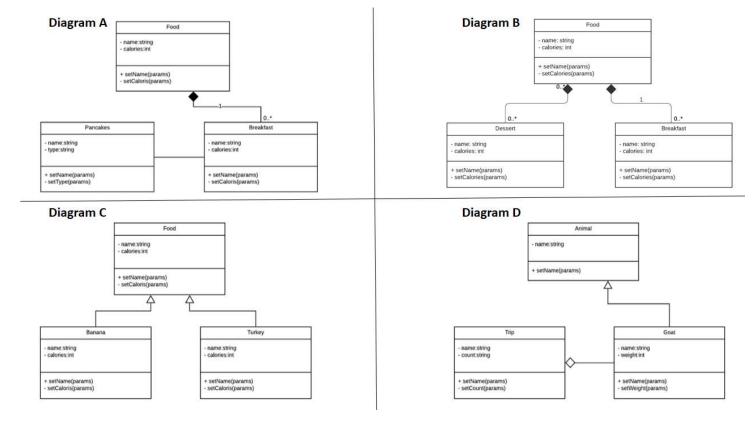
None of the above

▼ Hide question 1 feedback

#### **Feedback**

The correct answer is none to one. The relationship could also be expressed in words as zero or one.

**Question 2** 3.75 / 3.75 points



Identify the UML class diagram which only demonstrates inheritance. A text version is available. Select one.

Oiagram C

Oiagram B

Oiagram D

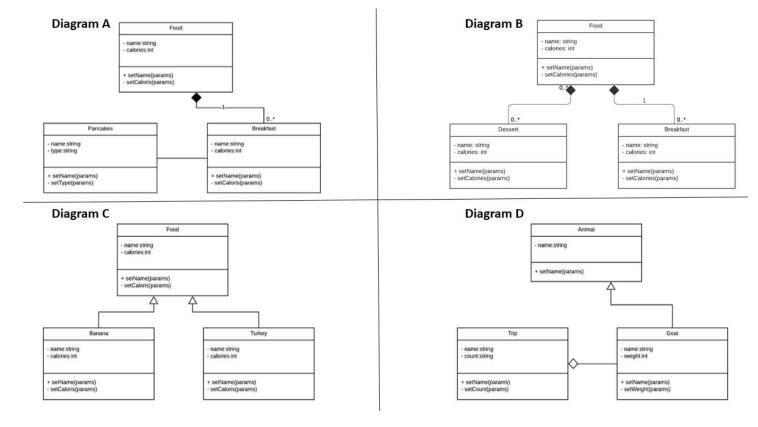
Oiagram A

▼ Hide question 2 feedback

## Feedback

In Diagram C, the Banana subclass and Turkey subclass inherit from the Food class. This is denoted by the open arrow. Diagram D demonstrates inheritance because the Goat subclass inherits from the Animal class, but Diagram D also demonstrates another object oriented programming principle.

**Question 3** 3.75 / 3.75 points



Identify the UML class diagram which demonstrates association. A text version is available. Select one.

- Oiagram A
- Oiagram C
- Oiagram D
- Oiagram B
- ▼ Hide question 3 feedback

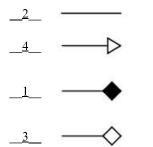
## Feedback

Diagram A demonstrates an association. A single line between classes demonstrates an association, as shown between the Pancake and Breakfast classes.

**Question 4** 3.75 / 3.75 points

Match the symbols to their meaning.

Instructions: Choose your responses from the drop-down menus below. Response options cannot be used more than once.



- 1. Composition
- 2. Association
- 3. Aggregation
- 4. Inheritance

**▼** Hide question 4 feedback

#### Feedback

The correct answers are: 1. Composition - Line with filled in diamond, 2. Association - straight line, 3. Aggregation - Line with empty diamond, 4. Inheritance - Line with empty arrowhead. These are the standard class diagram symbols.

**Question 5** 3.75 / 3.75 points

The symbol 0..\* in the following object relationship diagram represents what type of relationship? Select one.



None of the above

None to one

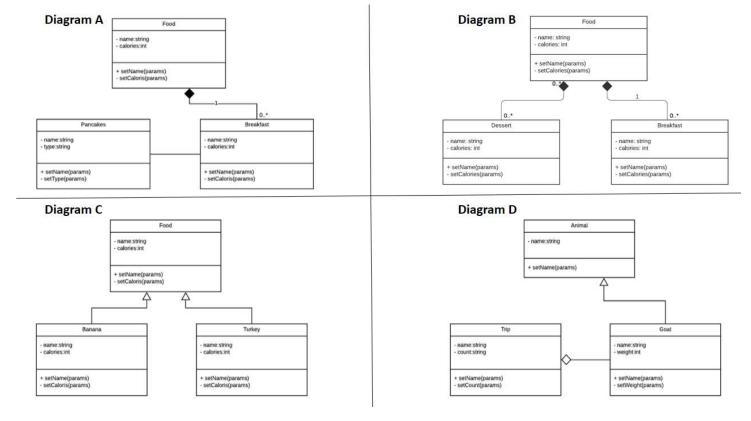
One to many

▼ Hide question 5 feedback

#### Feedback

The correct answer is none to many. 0 is none and \* is the symbol for 1 or more (many).

**Question 6** 3.75 / 3.75 points



Identify the UML class diagram which demonstrates aggregation. A text version is available. Select one.

	) Diagram	(
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Oiagram D

Oiagram B

Oiagram A

▼ Hide question 6 feedback

## Feedback

Diagram D demonstrates aggregation. Aggregation is denoted by the open diamond between the Goat and Trip classes. Trip is a separate class, and Goat is a subclass. The Trip class is composed of multiples of the Goat subclass. This makes sense as a trip is a herd of goats.

**Question 7** 3.75 / 3.75 points

The keyword "this" in Java refers to the child of the current parent object. The term "this" demonstrates a useful keyword in Java. Is the statement true or false?

( ) True

False

▼ Hide question 7 feedback

## Feedback

The statement is false. The keyword "this" refers to the current object in Java.

Question 8	3.75 / 3.75 points
This symbol represents the initial state. Is this true or false?	
True False	
▼ Hide question 8 feedback	
Feedback	
This statement is true. A filled circle represents state diagramming, which for the initial step of a state diagram.	is different from class diagramming. This is the standard symbol
Question 9	3.75 / 3.75 points
<b>←</b>	
This symbol represents an independent relationship between child classes	. Is this true or false?
<ul><li>True</li><li>False</li></ul>	
▼ Hide question 9 feedback	
Feedback	
This statement is false. This symbol, the double-sided arrow, would repre symbol that is used in UML. A more common symbol used in UML to she demonstrate an association between parent and child classes is through in	ow association is a straight line between classes. The only way to
Question 10	3.75 / 3.75 points
Match the symbols to their meaning.	
<b>Instructions</b> : Choose your responses from the drop-down menus below.	Response options cannot be used more than once.
	. Actor
	. System . Use Case Item
J	· Ose Case Helli

	4. Relationship
_3 ()	



▼ Hide question 10 feedback

#### Feedback

The correct answers are: 1. Actor - stick figure, 2. System - box, 3. Use Case Item - Oval, 4. Relationship - straight dark line. These are the standard class diagram symbols. You would utilize a use case to discover the objects that might be used to develop a system. A use case diagram helps to explain the system data and processing flow in a format that is easy to use and understand.

**Question 11** 3.75 / 3.75 points

A class diagram is a behavioral diagram. It demonstrates one of the 14 UML diagram types. Is this true or false?

True

False

▼ Hide question 11 feedback

#### **Feedback**

This statement is false. There are 14 UML diagram types which are categorized into behavioral and structural diagrams. A class diagram is structural and demonstrates the structured relationship between variables, common methods, and subclasses.

**Question 12** 3.75 / 3.75 points



This symbol represents a composition relationship between objects. Is this true or false?

True

False

▼ Hide question 12 feedback

#### **Feedback**

This statement is true. This symbol, a line with a filled in diamond, is the standard diagram component to represent various relationships between objects. The relationship between

objects can be a "none to one" or "many to one" relationship.