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Quiz Submissions - Chapter 14 Quiz   ▼

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Attempt 1

Written: Oct 28, 2016 1:04 PM - Oct 28, 2016 2:24 PM

Submission View

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Chapter 14 Random

Question 1	1 / 1 point

Assume that the Vehicle class contains a virtual method named CalculateMaxSpeed. Assume that both the MotorVehicle and Automobile classes override this method. Which class defines the method that is called when the second statement in the code that follows is executed?
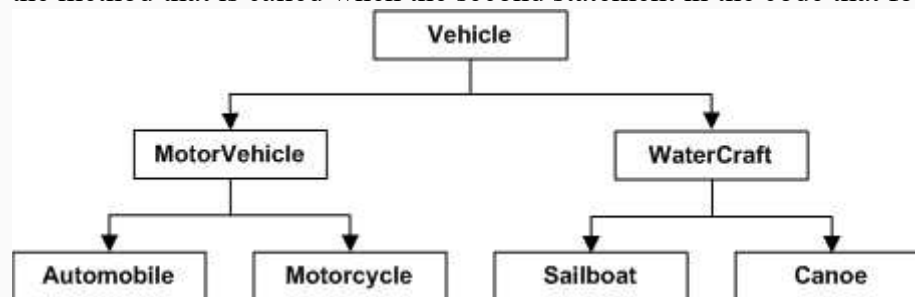

```
MotorVehicle car = new Automobile();
car.CalculateMaxSpeed();
```

✓ ⦿ Automobile

   ○ MotorVehicle

   ○ Vehicle

   ○ Object

Question 2   1 / 1 point
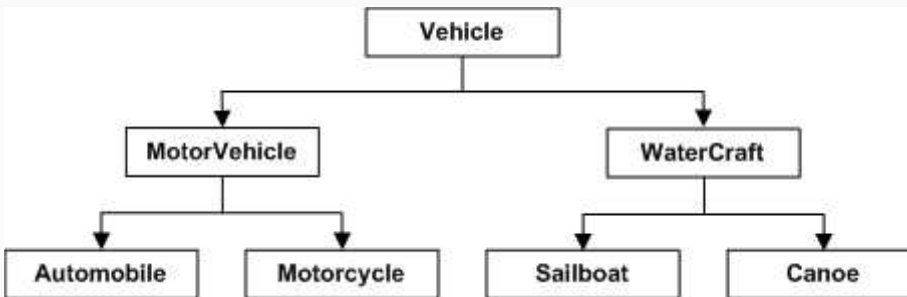
Diagram 14-1

(Refer to diagram 14-1.) If the constructor that follows is called, what other constructor is also called?

```
public Sailboat(string id, decimal length, int sails) : base(id, "sailboat", length)
{
    this.sails = sails;
}
```

    ○ `public Sailboat(int sails){…}`

    ○ `public Sailboat(string id, string type, decimal length){…}`

✔ ⦿ `public WaterCraft(string id, string type, decimal length){…}`

    ○ `public Vehicle(string id, string type, decimal length){…}`

Question 3   1 / 1 point

Which of the following method declarations overrides the method that follows?

```
protected virtual double CalculateMilesPerGallon(double speed){...}
```

    ○ `public new double CalculateMilesPerGallon(int s){...}`

    ○ `public override double CalculateMilesPerGallon(int speed){...}`

    ○ `public new double CalculateMilesPerGallon(double speed){...}`

✔ ⦿ `public override double CalculateMilesPerGallon(double s){...}`

Question 4   1 / 1 point

In the System.Windows.Forms namespace, the Control class

✔ ⦿ provides properties and methods that all controls in the namespace have in common

    ○ inherits the properties and methods from all of the control classes in the namespace

    ○ is the base class for the Button, TextBox, and Label classes, but not the Form class

    ○ is a child class of the Form class

Question 5   1 / 1 point

If the Student class inherits the Person class, which of the following statements is true?

✓ ◉ You must explicitly cast a Person object to a Student object whenever a Student object is expected.

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Question 6   1 / 1 point

When used correctly, inheritance can

○ make an application run faster

○ make it easier to write the code for the application

✓ ◉ simplify the overall design of an application

○ eliminate the need for casting

Question 7   1 / 1 point

If the Student class inherits the Person class and overrides a virtual method named GetBirthday, what feature does the following code example illustrate?

```
Student s = new Student("Albert Einstein");

Person p = s;

p.GetBirthday();
```

○ Inheritance

○ Encapsulation

✓ ◉ Polymorphism

○ Hiding

Question 8   1 / 1 point

The ToString, Equals, and GetHashCode methods are available to all objects because

○ they are defined in the System namespace

○ they are inherited by the System.Object class, which all other objects are based on

✓ ◉ they are members of the System.Object class, which all objects inherit

○ they are defined with public access

Question 9   1 / 1 point

A class can

○ have only one derived class

○ be the base class for only one derived class

○ be only a base class or a derived class

✓ ⦿ be both a base class and a derived class

Question 10   **1 / 1 point**

If the Student class inherits the Person class and overrides a virtual method named GetBirthday, which method does the third statement in the following code example call?

```
Student s = new Student("Albert Einstein");

Person p = s;

p.GetBirthday();
```

○ the GetBirthday method defined in the Person class

✓ ⦿ the GetBirthday method defined in the Student class

○ the GetBirthday method defined in the Object class

○ none of the above

Attempt Score: 10 / 10

Overall Grade (highest attempt)**:** 10 / 10

Done