socrative
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Name: Answer Sheet   **Date:** 05/29/2016

Quiz name: Module 1 - Introduction to Classes   **Score:** 100%

✔ 1.   Which of the following statements is incorrect?

(A)   A class is a template that defines the form of an object. It specifies both the data and the code that will operate on that data.

(B)   Objects are instances of a class

(C)   Objects can belong to more than one class

(D)   The String data type is an example of a class

(E)   I don't know

```
public class MyClass {
public int getANumber( ) {
return 2;
}
}
```

✔ 2.   **The class definition above could be saved in and compiled from a file named**

"MyClassDef.java".

(A)   True

(B)   False

```
//#####################################
// Greeter.java
//#####################################

public class Greeter {
private String greeting;
```

✔ 3.

```
public Greeter( String greeting ) {
this.greeting = greeting;
}

public String getGreetingFor( String name ) {
return greeting + " " + name + "!";
}

}

//#####################################
// GreetingDemo.java
//#####################################

public class GreetingDemo {
```

```java
public static void main( String[] args ) {

Greeter morningGreeter = new Greeter( "Good morning" );

System.out.println( morningGreeter.getGreetingFor( "Sunshine" ) );
    }
}
```

What is displayed by the main method of GreeterDemo?

Good morning Sunshine!

✔ 4.

```java
//#######################################
// Automobile.java
//#######################################

public class Automobile {
private int numberOfPassengers;
private int milesPerGallon;

private int gasTankCapacityInGallons;

public Automobile( ) {
numberOfPassengers = 5;
milesPerGallon = 30;
gasTankCapacityInGallons = 15;
}

public Automobile( int numberOfPassengers, int milesPerGallon, int gasTankCapacityInGallons
) {
this.numberOfPassengers = numberOfPassengers;
this.milesPerGallon = milesPerGallon;
this.gasTankCapacityInGallons = gasTankCapacityInGallons;
}

public int getTotalRangeInMiles( ) {
return gasTankCapacityInGallons * milesPerGallon;
}
}

//#######################################
// AutomobileDemo.java
//#######################################

public class AutomobileDemo {
public static void main( String[] args ) {
int bestRange;
Automobile genericSedan = new Automobile( );

Automobile miniVan = new Automobile( 7, 25, 20 );

if( genericSedan.getTotalRangeInMiles( ) > miniVan.getTotalRangeInMiles( ) ) {
bestRange = genericSedan.getTotalRangeInMiles( );
} else {
bestRange = miniVan.getTotalRangeInMiles( );
}

System.out.println(bestRange);
}
}
```

What number is displayed by the main method of AutomobileDemo?

500