socrative by MasteryConnect

Name: Answer Sheet
Quiz name: Module 1 - Week 2 Review

Date: 05/31/2016
Score: 100%

✔ 1.

```
List groceryList = new ArrayList( );

groceryList.add( "Milk" );
groceryList.add( "Eggs" );
groceryList.add( "Bread" );
groceryList.add( "Onions" );
groceryList.add( "Olive Oil");

groceryList.remove( 0 );
String item = groceryList.get( 2 );

System.out.println( item );
```

What does this code snippet display?

- A Milk
- B Eggs
- C Bread
- D Onions
- E Olive Oil
- F I don't know

✔ 2.

```
Map<String, String> zip2city = new HashMap<String, String>( );

zip2city.put( "44103", "Cleveland" );
zip2city.put( "44105", "Cleveland" );
zip2city.put( "43085", "Columbus" );
zip2city.put( "43204", "Columbus" );
zip2city.put( "45201", "Cincinnati" );
zip2city.put( "45205", "Cincinnati" );

String city = zip2city.get( "43085" );
```

What is the value of the variable "city" at the end of this code snippet?

Columbus

✔ 3.

```
Map<String, String> zip2city = new HashMap<String, String>( );

zip2city.put( "44120", "Shaker Heights" );
zip2city.put( "44120", "Cleveland" );

String city = zip2city.get( "44120" );
```

What is the value of the variable "city" at the end of this code snippet?

Cleveland

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

public class Automobile {
```

✔ 4.

```
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 truck = new Automobile( 2, 16, 22 );
Automobile smartCar = new Automobile( 2, 41, 8 );

if( smartCar.getTotalRangeInMiles( ) > truck.getTotalRangeInMiles( ) ) {
bestRange = smartCar.getTotalRangeInMiles( );
} else {
bestRange = truck.getTotalRangeInMiles( );
}

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

What number is displayed by the main method of AutomobileDemo?

352

✔ 5.

```
// ################################################
// Triangle.java
// ################################################
public class Triangle {

public int base;
public int height;

public Triangle( int base, int height ) {

this.base = base;
this.height = height;
}
}


// ################################################
// TriangleDemo.java
// ################################################
public class TriangleDemo {

public static void main( String[] args ) {


Triangle t = new Triangle(3, 5); // line 1
System.out.println("Base : " + t.base ); // line 2
System.out.println("Height : " + t.height ); // line 3
int area = t.base * t.height; // line 4
System.out.println(area); // line 5
}

}
```

Which (if any) of the lines above would cause a compiler error? (Choose all that apply)

- (A) line 1 would cause a compiler error
- (B) line 2 would cause a compiler error
- (C) line 3 would cause a compiler error
- (D) line 4 would cause a compiler error
- (E) line 5 would cause a compiler error
- (F) There is no compiler error
- (G) I don't know

✔ 6.

```
// ################################################
// Triangle.java
// ################################################
public class Triangle {

private int base;
public int height;

public Triangle( int base, int height ) {

this.base = base;
this.height = height;
}
}
```

```
// ################################################
// TriangleDemo.java
// ################################################
public class TriangleDemo {

public static void main( String[] args ) {


Triangle t = new Triangle(3, 5); // line 1
System.out.println("Base : " + t.base ); // line 2
System.out.println("Height : " + t.height ); // line 3
int area = t.base * t.height; // line 4
System.out.println(area); // line 5
}

}
```

Which (if any) of the lines above would cause a compiler error? (Choose all that apply)

- (A) line 1 would cause a compiler error
- (B) line 2 would cause a compiler error
- (C) line 3 would cause a compiler error
- (D) line 4 would cause a compiler error
- (E) line 5 would cause a compiler error
- (F) There is no compiler error
- (G) I don't know

✔ 7.

```
// ################################################
// Circle.java
// ################################################

import java.util.Math;

public class Circle {


private int diameter;

public Circle( int diameter ) {

this.diameter = diameter;
}

public int getDiameter( ) {

return diameter;
}


public double getArea( ) {

Math.PI * Math.pow( getRadius( ), 2 );
}

private double getRadius( ) {
```

```
return (double)diameter / 2;
}
}

// ################################################
// CircleDemo.java
// ################################################

public class CircleDemo {

public static void main( String[] args ) {

Circle c = new Circle(5); // line 1
System.out.println("Diameter : " + c.getDiameter( ) ); // line 2

System.out.println("Area : " + c.getArea( ) ); // line 3
}
}
```

Which (if any) of the lines above would cause a compiler error? (Choose all that apply)

- (A) line 1 would cause a compiler error
- (B) line 2 would cause a compiler error
- (C) line 3 would cause a compiler error
- (D) There is no compiler error
- (E) I don't know

```
// ################################################
// Circle.java
// ################################################

import java.util.Math;
```

✔ 8.

```
public class Circle {


private int diameter;

public Circle( int diameter ) {

this.diameter = diameter;
}

public int getDiameter( ) {

return diameter;
}

public double getArea( ) {

Math.PI * Math.pow( getRadius( ), 2 );
}

private double getRadius( ) {
```

```
return (double)diameter / 2;
}
}

// ################################################
// CircleDemo.java
// ################################################

public class CircleDemo {

public static void main( String[] args ) {

Circle c = new Circle(5); // line 1
System.out.println("Diameter : " + c.getDiameter( ) ); // line 2

System.out.println("Radius : " + c.getRadius( ) ); // line 3
System.out.println("Area : " + c.getArea( ) ); // line 4
}
}
```

Which (if any) of the lines above would cause a compiler error? (Choose all that apply)

- (A) line 1 would cause a compiler error
- (B) line 2 would cause a compiler error
- (C) line 3 would cause a compiler error
- (D) There is no compiler error
- (E) I don't know

✔ 9.

```
// ######################################
// Foo.java
// ######################################

public class Foo {

private static int globalTotal = 0;

private int myTotal = 0;

public void addSome(int n) {
globalTotal += n;
myTotal += n;
}

public int getTotal( ) {
return myTotal;
}

public static int getGlobalTotal( ) {
return globalTotal;
}

}

// ############################
// FooDemo.java
// ############################

public class FooDemo {
```

```
public static void main(String[] args) {
Foo f1 = new Foo( );
Foo f2 = new Foo( );
f1.addSome(1);
f2.addSome(2);
System.out.print( f1.getTotal( ) );
System.out.print( f2.getTotal( ) );
System.out.print( Foo.getGlobalTotal( ) );
}
}
```

What is the output of the FooDemo main method?

123

✔ 10. Which of the following member variable declarations follows standard Java naming conventions? (Choose all that apply)

- (A) private double milesToCleveland;
- (B) private static double milesToCleveland;
- (C) public static final double MILES_TO_CLEVELAND = 123.4;
- (D) public static final double milesToCleveland = 123.4;
- (E) public static final double miles_to_cleveland = 123.4;
- (F) public static double miles_to_cleveland;
- (G) None of the above follow standard Java naming conventions
- (H) I don't know

```
final int x = 0;
x = 2;
```

✔ 11. **Will the code fragment above cause a compiler error?**

- (A) Yes
- (B) No
- (C) I don't know

```
final int x;
x = 2;
```

✔ 12. **Will the code fragment above cause a compiler error?**

- (A) Yes
- (B) No
- (C) I don't know

```
final int x;
x = 2;
x = x + 1;
```

✔ 13. **Will the code fragment above cause a compiler error?**

- (A) Yes
- (B) No

C I don't know

```
String language = "Javascript";
language.substring(0, 4);

System.out.println(language);
```

✔ 14. **What is displayed by the code above?**

Javascript