Methods Test 1 Key

Questions 1-4 refer to the following code segment.

```
public class Demo
{
   public void method1(int a, int b)
     int ans = 0;
     ans = a + b;
     System.out.println(ans);
   public String method2(String str)
      String s1 = str.substring(0,1);
     String s2 = str.substring(str.length() - 1);
     return s1 + s2;
   }
   public static void main(String[] args)
     Demo app = new Demo();
      app.method1(10, 20);
                                                // Line 1
     String str = app.method2("friend");
                                               // Line 2
   }
}
```

- 1. How many parameters does method1 declare?
 - A) 0
 - B) 1
 - C) 2
 - D) 3
- 2. The return value of method2 is of type
 - A) int
 - B) double
 - C) boolean
 - D) String

3.	What is displayed as a result of executing Line 1 ?
	A) 30
	B) 20
	C) 10
	D) 0
4.	What value is stored in the String variable str as a result of executing Line 2 ?
	A) Friend
	B) Fr
	C) Fd
	D) Frie
5.	Assume that a class has defined the following methods.
	<pre>public int one(int num) {</pre>
	return num * num;
	}
	<pre>public int two(int x)</pre>
	{
	return x + one(x);
	}
	What value is returned by the following method call: two(5)?
	A) 5
	B) 15
	C) 25
	D) 30
6.	Refer to the following method.
	<pre>public void doSomething(int num)</pre>
	{
	int ans;
	ans += num; System out println(ans):
	<pre>System.out.println(ans); }</pre>
	What is output by the following method call: doSomething(2)?
	A) 0
	B) 2
	C) 4
	D) nothing is output due to a syntax error

7. Look at the following method definition.

```
public void printName(String name)
{
    /* expression */
}
```

Which of the following correctly replaces / * expression */ so that the string value stored in the parameter **name** is displayed using the following format: "My name is ______".

```
A) System.out.println("My name is " + name);
B) System.out.println("My name is Bob");
C) return "My name is " + name;
D) return "My name is Bob";
```

8. The following method should return the square of an integer value that is passed as a parameter (argument) to the method.

```
/* method header */
{
    return num * num;
}
```

Which of the following correctly replaces /* method header */ so that the method works as intended.

```
A) public void square()
B) public void square(int num)
```

- C) public int square()
- D) public int square(int num)

Questions 9-10 refer to the following class definition.

```
public class Demo
{
    private int a = 5;
    public void method1()
    {
        int b = 10;
    }
    public void method2()
    {
        int c = a * 2;
        System.out.println(c);  // line 1
    }
    public void method3()
    {
        int d = b * 2;
        System.out.println(d);  // line 2
    }
}
```

- 9. What value is printed on **line 1** as the result of a call to **method2**?
 - A) 2
 - B) 5
 - C) 10
 - D) Nothing is printed due to a syntax error
- 10. What value is printed on **line 2** as the result of a call to **method3**?
 - A) 5
 - B) 10
 - C) 20
 - D) Nothing is printed due to a syntax error