## Classes Test 1

Look at the following class definition.

```
public class MyClass
{
    private int num;

    public MyClass(int n)
    {
        num = n;
    }
    public int getNum()
    {
        return num;
    }
    public void setNum(int n)
    {
        num = n;
    }
    public String toString()
    {
        return "Num = " + num;
    }
}
```

- 1. Which of the following is the constructor method for MyClass?
  - A) MyClass(int n)
  - B) getNum()
  - C) setNum(int n)
  - D) MyClass does not have a constructor.
- 2. Which of the following is the accessor method for MyClass?
  - A) MyClass(int n)
  - B) getNum()
  - C) setNum(int n)
  - D) MyClass does not have an accessor method.
- 3. Which of the following is the mutator method for myClass?
  - A) MyClass(int n)
  - B) getNum()
  - C) setNum(int n)
  - D) MyClass does not have a mutator method.

4. Which of the following correctly instantiates a MyClass object and initializes its instance variable a value of 5?

```
A) num = 5
B) MyClass obj = new MyClass(5)
C) MyClass obj = 5
D) obj.num = 5
```

5. Assume that a MyClass object named obj exists. Which of the following will correctly print the value of obj's instance variable from a client class?

```
A) System.out.println(num)B) System.out.println(obj.num)C) System.out.println(obj.getNum())D) More than one of these will.
```

6. Assume that a MyClass object named obj exists. Which of the following will correctly modify the value of obj's instance variable from a client class?

```
A) num = 5
B) obj.num = 5
C) obj.setNum(5)
D) More than one of these will.
```

7. Assume that a MyClass object named obj exists and its instance variable num has been assigned the value 5. Which of the following will correctly print the instance variable num from a client class in the following format: Num = 5

```
A) System.out.println("Num = " + obj.getNum());
B) System.out.println(obj.toString());
C) System.out.println(obj);
D) All of the above
```

8. Suppose you wanted to add a new method to MyClass named **square** that returned the square of the instance variable num. Which of the following can replace /\* return type \*/ and /\* expression \*/ so that the method works as intended.

```
public / * return type */ square()
      {
          /* expression */
      }
/* return type */ /* expression */
                      return num * num;
return num * num;
System.out.printl
A)
      void
B)
      int
C)
      void
                          System.out.println(num * num);
                          System.out.println(num * num);
D)
      int
```