

## Classes, Types, and For Each Loops

Practice Quiz, 5 questions

1  
point

1.

**Before you can effectively code in Java, you need to be able to understand what your code does. Try to solve the following problems in this quiz by hand!**

Consider the following BlueJ program.

```
1 public class Mystery {  
2  
3     /**  
4      * read file of mysterious phrases  
5      */  
6  
7     public void DoSomething() {  
8         // initialize instance variables  
9         FileResource someFile = FileResource("phrases.txt");  
10        for (String phrase : someFile.lines()){  
11            System.out.println(phrase);  
12        }  
13    }  
14 }
```

Which one of the following is the name of a method?

- ☐ DoSomething
- ☐ Mystery
- ☐ phrase
- ☐ someFile

1  
point

2.

Consider the following Java class.

## Classes, Types, and For Each Loops

Practice Quiz, 5 questions

```
1 public class Thing {
2     private int a;
3
4     public Thing(int x) {
5         a = x;
6     }
7
8     public int geta() {
9         return a;
10    }
11
12    public void print() {
13        int b = 4; System.out.println(geta() + " " + b);
14    }
15 }
16 }
```

What is (or are) the instance variable(s) in this class?

- ☐ a and x
- ☐ b
- ☐ a, x, and b
- ☐ x
- ☐ a

1  
point

Consider the following Java class.

```
1 public class Thing {
2
3     private int a;
4
5     public Thing(int x) {
6         a = x;
7     }
8
9     public int geta() {
10        return a;
11    }
12 }
```

And consider the following code segment that uses the class Thing.

```
1 Thing f = new Thing(3);
2 Thing g = new Thing(5);
3 Thing h = f;
4 Thing j = h;
```

3. How many Thing objects are created?

Enter answer here

1

point

## Classes, Types, and For Each Loops

Practice Quiz, 5 questions

Consider the following Java code segment.

```
1 int m = 7 ;
2 int n = 9 ;
3 double d = 4.5 ;
4 double f = 8.974 ;
```

Which one of the following arithmetic expressions would need a cast for the addition to work?  
(Hint: Review the video on **Types** if you are unsure what casting variables means.)

☐

```
1 int x = m + n ;
```

☐

```
1 double z = m + f ;
```

☐

```
1 int y = n + f ;
```

☐

```
1 double w = d + f ;
```

1

point

5.

Consider the Thing class shown below.

```
1 public class Thing {
2
3     private int a;
4
5     public Thing(int x) {
6         a = x;
7     }
8
9     public int geta() {
10        return a ;
11    }
12
13    public void combine (Thing y) {
14        a = a + y.geta();
15    }
16 }
```

And consider the following code segment that uses the Thing class.

```
1 Thing f = new Thing(6);
2 Thing g = new Thing(8);
3 f.combine(g);
4 System.out.println(f.geta());
5 System.out.println(g.geta());
```

What is printed when this code is executed?