

## Java Week 6

Total Questions: 12

Most Correct Answers: #9

Least Correct Answers: #10

**1. According to the course coding standards, which of the following are true?**

- 2/4 ☒ A No abbreviations are allowed in the names of classes, variables or methods.
- 4/4 ☒ B All class names must start with an uppercase letter.
- 0/4 ☐ C All method names must start with an uppercase letter.
- 2/4 ☒ D All non-constant variable names must start with a lowercase letter.

**2. According to the course coding standards, which of the following are true?**

- 3/4 ☒ A All variables must be declared on their own line.
- 3/4 ☒ B All local variables must be declared at the top of a method.
- 0/4 ☐ C Local variables should not be initialized when they are declared.
- 3/4 ☒ D Comments are required before all class statements and methods.

**3. According to the course coding standards, which of the following are true?**

- 0/4 ☐ A All local variables must be declared private.
- 3/4 ☒ B All instance variables that need to be used outside of a class need accessor methods (getters and setters).
- 3/4 ☒ C All method names should start with a verb.
- 1/4 ☒ D Local variables should be initialized when they are declared.

**4. Which of the following are true?**

- 2/4 ☒ A Instance variables get a default value.
- 2/4 ☒ B Local variables are declared in methods.
- 0/4 ☐ C Local variables get a default value.
- 3/4 ☒ D Local variables must be initialized before use.

5. Which of the following is the proper way to determine the size of a dogs array that has been define like this:

`Dog[] dogs = new Dog[10];`

- 3/4 ☒ A `dogs.length`
- 0/4 ☐ B `dogs.size`
- 0/4 ☐ C `dogs.getCount`
- 0/4 ☐ D `dogs.setSize().length`

6. Which of the following is the proper way to create an array of 3 Book objects?

- 3/4 ☒ A `Book[] books = new Book[3];`  
`books[0] = new Book();`  
`books[1] = new Book();`  
`books[2] = new Book();`
- 0/4 ☐ B `Book[] books = new Book(3);`  
`books(0) = new Book();`  
`books(1) = new Book();`  
`books(2) = new Book();`
- 0/4 ☐ C `Book[] books = new Book[3];`  
`books[1]= new Book();`  
`books[2] = new Book();`  
`books[3] = new Book();`

7. Which of the following are true of encapsulation?

- 0/4 ☐ A Getters and setters are marked private.
- 3/4 ☒ B Instance variables are marked private.
- 2/4 ☒ C Getters and setters provide access to the instance variables.
- 2/4 ☒ D Encapsulation provides a way to protect your data.

8. Which of the following will produce a result of 3?

```
int x = 14;  
int y = 4;
```

0/4 ☐ A double z = x / y;

3/4 ☒ B int z = x / y;

0/4 ☐ C double z = (double) x / y;

0/4 ☐ D double z = (double) (x / y);

9. Which of the following will produce a result of 3.5?

```
int x = 14;  
int y = 4;
```

3/4 ☒ A double z = (double) x / y;

0/4 ☐ B int z = x / y;

0/4 ☐ C double z = x / y;

10. Given the following, write the getter for the instance variable below.

```
public class Contact {  
private int age;  
}
```

Anon anon266e03bdd36f4a13

```
public int getAge() {  
return age;  
}
```

✗

Anon anon4cdea19ebf4a43f9

```
/** return the Contact's class name  
 * @return the Contact's class name  
 */  
public int getAge() {  
return age;  
}
```

✗

Anon anonac98f01cdfae43dc

```
✗ public int getAge(){return age;}
```

11. Given the following, write the setter for the instance variable below.

```
public class Contact {  
    private int age;  
}
```

Anon anon266e03bdd36f4a13

✗ public void setContact(int age) {this.age = age;}

Anon anon4cdea19ebf4a43f9

✗ public void setAge(int newAge) { age = newAge; }

Anon anonac98f01cdfae43dc

✗ public void setAge() {int age}

12. Given the following, write the code to set color on the Flower object to "yellow".

```
public class Flower {  
    private String color;
```

```
    public void setColor(String newColor) {  
        color = newColor;  
    }  
}
```

... assume this code is in a valid class and method...

```
Flower myFlower = new Flower();
```

// what code goes here to set myFlower's color to yellow?

Anon anon266e03bdd36f4a13

✗ myFlower.setColor = yellow;

Anon anon4cdea19ebf4a43f9

✓ myFlower.setColor("yellow");

Anon anonac98f01cdfae43dc

✓ myFlower.setColor("Yellow");