

Section 1 - Java Syntax and Class Review Quiz Answers

1. What is the output of the following program?

```
public static void main(String[] args)
{
  int a = 2;
  double b = 4.0;
  double c = 10.0;
  double out = c / b + a / (2 * a);
  System.out.println(out);
}
```

Answer: 2.5

a /(2*a) is zero because we're dividing two integers. Whenever you divide two integers, you don't worry about anything that comes after the decimal point in the result - you're always left with a whole number.

2. What is the output of the following program?

```
public static void main(String[] args)
{
```

```
String in = "hello";
String out = in.replaceAll("l", "");
in = out.toUpperCase();
System.out.println(in);
}
```

Answer: HEO

First, we got rid of all the "l"s in *hello*. Then, we converted the string to uppercase and re-assigned the original *in* variable. **Careful:** if we hadn't reassigned the original variable, we would have printed just *hello*.

3. Given the following program, write code to capitalize the first letter of lowerCaseString.

e. All of the above

Answer:

b, c

5. What is the output of the following program?

```
public static void main(String[] args)
{
  int val = 10;
  switch (val)
  {
    case 1:
      System.out.println("Orange");
      break;
    case 2:
      System.out.println("Pear");
      break;
    default:
      System.out.println("Apples!");
      break;
}
```

Answer:

Apples!