

CS101 Quiz 1 Solution

Name:

// **Part A:** What are the outputs of each System.out.println statement?

```
char aCharacter = 'g';
System.out.println("The character is = " + aCharacter);
aCharacter++;
System.out.println("The character is = " + aCharacter);
```

The character is = g
The character is = h

```
int a = 1, b = 2;
System.out.println("a = " + a + " b = " + b);
System.out.println(a + b + " is equal to " + (a + b));
System.out.println("Another statement: " + a + b + " is equal to " + a + b);
```

a = 1 b = 2
3 is equal to 3
Another statement: 12 is equal to 12

```
int c = 3, d = 4;
System.out.println("c = " + c++ + " d = " + d--);
```

c = 3 d = 4

```
int x = 2, y = 3, z = 4;
int result = x + 2 * y + z;
System.out.println("result = " + result);
```

result = 12

```
double aRationalNumber = 5.24;
int aNumber = (int) aRationalNumber;
System.out.println("aRationalNumber = " + aRationalNumber);
System.out.println("aNumber = " + aNumber);
```

aRationalNumber = 5.24
aNumber = 5

// **Part B:** Find and print quotient and remainder when 330 is divided by 18

```
int dividend = 330;
int divisor = 18;
int quotient =
int remainder =
System.out.println("quotient = " + quotient);
System.out.println("remainder = " + remainder);
```

quotient = 18
remainder = 6

// **Part C:**

// One mile is equal to 1.852 km.

Miles = 294.81641468682506

// Complete following class so that your method will convert 546 kms to miles.

// Also write declaration of a constant to use during conversion

```
public class Main {
    // declartion of constant
    public static void main(String args[]) {
        // write your code
    }
}
```

```
final double KM_TO_MILE = 1.852;
double kms = 546;
double miles = kms / KM_TO_MILE;
System.out.println("Miles = " + miles);
```