# Homework – Math Class

Use the Java API and other online resources to investigate the Java Math class.

1. **Which package does the Math class belong to?**
   Java.lang

2. **Name the methods that find the absolute value? How many of such methods are there?**
   Math.abs(). There are 4 methods (different data types)

3. **Name the method that calculates the power of a number, e.g. $2^3$ or $x^4$.**
   Math.pow()

4. **Name the method that can be used to generate a random number.**
   Math.rand()

5. **How do you call these methods in Math class? (Go online to look for examples)**
   Math.<method>()

Let's try to write some code now!

6. **RandomNum.java** Write a program that will print out a random number between 0 and 100.

7. **Exponent.java** Write a program that ask user for a base *b*, and an exponent *e*, then print out the power $b^e$.

8. **AbsValue.java** Write a program that asks user for a number, then outputs the absolute value of that number.