1. (2 pts) Suppose we create an array with the following syntax.

   int[][] numbers = new int[3][4];

Which of the following are valid syntax and why?

   int size = numbers.length; ____________________________
   int size = numbers[0].length; ____________________________
   int size = numbers[0][0].length; ____________________________

2. (2 pts) The parameters listed in the declaration of a method are called its __________ parameters, and the parameters listed in the call to the method are called __________ parameters.

3. (2 pts) A collection of related classes is called a __________, and the only one of these which is automatically imported every time we compile or execute a Java program is __________.

4. (2 pts) When a variable is declared __________, it can be accessed from any class definition regardless of where that class definition is located, and when a variable is declared __________, it can only be accessed from within the class in which it is declared.

5. (2 pts) Will a syntax error be reported when a class definition containing the following method is compiled? Explain.

   public int modulus(int input) {
     if (input >= 1 & input % 2 == 0)
       return 0;
     else if (input <= 0)
       return 1;
   }