- 1) 5, 11, 13, 14, 6, 11, 13, 14, 7, 8 2) Write method headers for methods with the following descriptions. a) public static int max(int intOne, int intTwo) b) public static float smallestFloat(float floatOne, float floatTwo, float floatThree) c) public static boolean isPrime(int num) d) public static boolean containsString(String mainString, String substring) e) public static double accountBalance(double initialBalamce, double rate, double numYears) f) public static void printAccountBalance(double initialBalamce, double rate, double numYears) g) public static void printCalander(int month, int year) h) public static String findWeekday(int day, int month, int year) i) public static double randInr(int n) 3) Give examples of the following methods from the Java library a) Math.acos(double a) b) Math.atan2(double y, double x) c) Double.parseDouble(String s) d) Math.random() 4) Write the following methods: a) double smallest(double x, double y, double z)} int min = x: if(y < min) min = y;if(z < min) min = z;return min; b) double average(double x, double y, double z){ return (x + y + z) / 3; 5) True or false? a) False b) false c) true d) false e) true f) false g) false 6) Without actually compiling and running a program, determine the results of the following method calls. a) x1 = 39.0b)  $x^2 = 400.0$ c) x3 = 92.0d) x4 = 62.0e) x5 = 0.07)
  - a) What is the difference between an argument and a return value?
    - i. An argument is the value passed to the function, the return value is the value returned by the function
  - b) How many arguments can a method call have?
    - i. There is no limit
  - c) How many return values?

- i. A method can have multiple return statements but only one return value per method call
- 8) Write the definition of a method twice, which receives an int parameter and returns an int that is twice the value of the parameter.

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a) public static int twice(int num){
    return (num * 2);
}
```

- 9) Write the definition of a method powerTo, which receives two parameters. The first parameter is a double and the second is an int. The method returns a double, which is the value of the first parameter raised to the power of the second parameter. If this result is negative, the method returns zero.
  - a) public static double powerTo(double numOne, int numTwo){
     int result = Math.pow(numOne, numTwo);
     if(result < 0){
     return 0;
     }
     return result;
    }</pre>
- 10) Write the definition of a method maxOf4 that has four int parameters and returns the largest.
  - a) public static int maxOf4(int numOne, int numTwo, int numThree, int numFour){
     int max = numOne;
     if(numTwo > max) max = numTwo;
     if(numThree > max) max = numThree;
     if(numFour > max) max = numFour;
     return max;
    }