## Chapter 1-2 Review

Monday, September 24, 2012 7:53 AM Computer Science Chapter 1-2 Review Name: \_ 1. Circle the following identifiers (variable names) that are valid in Java. 2. What does this print? How many lines of text are produced? Hello System.out.printin("Hello");
System.out.print("How are you today\_" + "Ted?"); How one you today Ted? The hell System.out.println("Hello"); System.out.println("Goodbye()for(nnow"); how 3. What does this print? How many lines of text are produced? System.out.println("1x3 tx3 nfwd) 1x3 x3fw d/fs 4. What would be stored in the variables after each assignment statement? es 1.0K double a = 6 / 4;int b = 6 / 4;double c = 6.0 / 4;int d = 6.0 / 4;5. What would be stored in the variables after each assignment statement? double a = (double) (6 / 4); int b = (int)(6 / 4);double c = (int)(6.0 / 4);int d = (int)(6.0)6. What would be the results of the following variables in Java? int a = (10 + 10) / 4 \* 6 - 5;int b = (10 + 10) - 4 / 2 + 3; int c = 100 / 30 / 2; int d = 16 % 3;int e = 10 \* 3 % 12; 7. What would print for each of the following? System.out.println("The answer is: "(+)5(+)10);  $\rightarrow$  The case (-)5(+)5(+)10 + " is the answer."); The ensur is 510

## class java.lang.String int length() String substring (int from, int to) // returns the substring beginning at from // and ending at to-1 // returns substring(from, length()) String substring(int from) int indexOf(String str) // returns the index of the first occurrence of str; // returns -1 if not found int compareTo(String other) // returns a value < 0 if this is less than other // returns a value = 0 if this is equal to other // returns a value > 0 if this is greater than other class java.lang.Math static int abs(int x) static double abs(double x) static double pow(double base, double exponent) static double sqrt(double x) static double random() // returns a double in the range [0.0, 1.0)

8. What would print for this statement?

System.out.println(Math.pow(Math.sqrt(4), Math.abs(5-8)));

print? 3)

9. What would each of these statements print?

String s = "OPRF in Oak Park, IL";

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a) System.out.println(s.substring(5, 9)); in O

b) System.out.println(s.substring(15)); k, L

c) System.out.println(s.indexOf("P")); l

d) System.out.println(s.indexOf("X"));

e) System.out.println(s.substring(s.length()-2));

f) System.out.println(s.indexOf(s.substring(0,1) + "a")); 8

10. These statements would produce random integers in what range?

int x = (int) (Math.random()\*5)+3; int y = (int) (Math.random()\*10)+101;  $\sqrt{3-7}$ 

Sample Free Response:

Write a code snippet that would ask for two numbers from the keyboard (with prompts) and print the product of the numbers. (no need for the static void main and all of that stuff, just the guts of the code)

Sigstem.out. proth ("Please edu anumbe");
int x = keyboard. next los ();

Sys.out p ("Please eter a number");
int y = keyboard. next los ();

System.out. proth ("The oner is: "+ (x+y));