

I. A) Random Numbers (Not in our book)

1a) Open **AP1ch06lab04a.java**

b) Run and write the output: _____

c) Run and write the output: _____

d) Run and write the output: _____

e) Is the output the same in b)-d)? (yes/no) _____

f) How many numbers are output in each line above? _____

g) What is the largest number found in any of the 3 lines above? _____

h) What is the smallest number found in any of the 3 lines above? _____

i) Is a static or regular (nonstatic) method used to obtain the random numbers? _____

k) What is the name of the method used? _____

l) What is the Class name that is used? _____

2) Change the code to output 20 random numbers between 2 and 7.

When perfect, show your teacher the coding and output (run).

(teacher signature)

OVER

B) Random Numbers and Simulations (6.5 pp.262-263)

1a) Open **AP1ch06lab04b.java**

b) Run and write the output: _____

c) Run and write the output: _____

d) Run and write the output: _____

e) Is the out put the same in b)-d)? (yes/no) _____

f) How many numbers are output in each line above? _____

g) What is the largest number found in any of the 3 lines above? _____

h) What is the smallest number found in any of the 3 lines above? _____

i) Is a static or regular (nonstatic) method used to obtain the random numbers? _____

k) What is the name of the method used? _____

l) What is the Class name that is used? _____

m) What is the name of the object? _____

2) Change the code, using the Random Class, to output 20 random numbers between 2 and 7.

When perfect, show your teacher the coding and output (run).

(teacher signature)

3a) Open **AP1ch06lab04c.java** and run

b) Is the output for die 1 and die 2 the same for each pass through the loop? _____

c) Change the line **int m = die2.nextInt(6) + 1;** to **int m = die1.nextInt(6) + 1;** and run

d) Is the output for die 1 and die 2 the same for each pass through the loop? _____

Summary: The Random Class has a method in it called `nextInt(n)` which returns an integer between 0 (inclusive) and *n* (exclusive)

Turn in this sheet to be graded!