AP/Honors Java		
Unit 5 Practice Test		

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- 1. An if statement can be nested inside of a for loop.
- 2. A while loop is guaranteed to iterate at least one time.
- 3. A for loop's control variable (e.g. i) can be declared in such a way that its scope is limited to the loop.
- 4. A break statement can be used to immediately exit out of a for loop or a while loop.
- 5. i++ is often used as the initializing expression in a while loop.
- 6. A loop invariant must be true even just after the last iteration of the loop when the loop's control expression is false.

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- 7. Flag variables often use the boolean data type.
- 8. The randomInt method of the Math class is a static method.
- 9. A for loop is considered to be an indefinite loop.
- 10. An initializing expression is required in a for loop. Otherwise, a compile error will occur.

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you do not use double-nested loops.

1. A varia	ble is often used to control when a while loop ends.
2. A loop	is always true at the top of a loop.
Write the Code 1. Write an assignment statement that st	ores a pseudorandom integer between or including 1 and 10 into the variable num.
2. Write an assignment statement that st	ores a pseudorandom floating-point value between 0 inclusive and 15 exclusive into the variable num.
3. Write a for loop that displays the ev	en integer values from 2 to 8 inclusive on a single line of output with spaces in between.
4. Write a code segment that uses a for separate lines.	loop to efficiently display all numbers between 10 and 30 inclusive that are multiples of 3 or 5 on
5. On the back of this paper, write a mer public static int fourSided {	nod named fourSidedDice that returns the integers 1, 2, 3, and 4 with equal probability.
6. On the back of this paper, write doub	e-nested for loops that display the following arrangement of asterisks. You will receive no credit if