AP Computer Science A
Ticket Out the Door
Set 5: Mixed Data Types

Name _____ Period _____

Skill 5.1 Exercise 1
Indicate what is printed for each of the following. If there is an "error", indicate how you could fix it.
(a) Write code that will take the square root of x and store the result in y
(b) Write code that will generate a random number from 0 up to 1.
(c) Evaluate whether the following is legal. If it is not legal, correct the code to make it correct.   `int k = Math.abs(-127.5)`

(d) Indicate what is printed

(i) `System.out.println( Math.ceil( -157.2) );`

(ii) `System.out.println( Math.floor( -157.2) );`

(iii) `System.out.println( Math.ceil(157.2) );`

(iv) `System.out.println( Math.floor( 157.2) );`

(v) `System.out.println( Math.round( -157.2) );`

(vi) `System.out.println( Math.ceil( -157.7) );`

(vii) `System.out.println( Math.ceil( 157) );`

(viii) `System.out.println(Math.cel( 157.7) );`

AP Computer Science A
Ticket Out the Door
Set 5: Mixed Data Types

Name _____ Period _____

Skill 5.2 Exercise 1	
Write code that could be used to create a random number within each of the specified ranges below	
0 – 1 (1 not inclusive)	
1 – 52 (52 is inclusive)	
100 – 200 (200 is not inclusive)	
-100 – 0; (0 is inclusive)	

Skill 5.3 Exercise 1	
Write code that could be used to calculate each of the following,	

$d1 = 3\pi\sin(187°) + |\cos(122°)|$ …Remember that the arguments of sin and cos must be in radians.

$d2 = (14.72)^{3.801} + \ln 72$ …ln means log base e