

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.min(100, 200));`

(ii) `System.out.println(Math.max(100, 200));`

(iii) `System.out.println(Math.max(Math.max(100, 200), 50));`

(iv) `System.out.println(Math.min(Math.min(100, 25), 75));`

(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.ceil(157.7));`

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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^\circ) + \cos(122^\circ) $...Remember that the arguments of sin and cos must be in radians.
$d2 = (14.72)^{3.801} + \ln 72$...ln means log base e

AP Computer Science A
Ticket Out the Door
Set 5: Methods of the Math class

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