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| **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) ); |

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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) |  |

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