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| **Skill 4.1 Exercise 1** | |
| Indicate what is printed for each of the following. If there is an “error”, indicate how you could fix it. | |
| int cnt = 27.2;  System.out.println(cnt); |  |
| int cnt = 27.9;  System.out.println(cnt) |  |
| double d = 5;  System.out.println(d); |  |
| int cnt = 101;  double d = cnt;  System.out.println(d) |  |
| int cnt = 17.9;  double d = cnt;  System.out.println(d); |  |

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| **Skill 4.2 Exercise 1** | |
| Indicate what is printed for each of the following. If there is an “error”, indicate how you could fix it. | |
| int x = 10;  int y = 7;  System.out.println(y/x); |  |
| int x = 10;  int y = 7;  System.out.println(x/y); |  |
| double x = 10;  int y = 7;  System.out.println(y/x); |  |
| int x = 10;  int y = 3;  double z = x/y;  System.out.println(z); |  |
| int x = 10;  int y = 3;  System.out.println((double)x/y); |  |
| int x = 10;  int y = 3;  System.out.println((double)x%y); |  |
| double x = 10.5  int y = 3;  System.out.println(x%y); |  |
| double x = 10;  double y = 3;  double z = 10/3;  int i = z;  System.out.println(z); |  |
| int p = 3;  double d = 10.3;  int j = (int)5.9;  System.out.println(p + p \* (int)d – 3 \* j); |  |

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| **Skill 4.3 Exercise 1** | |
| Indicate what is printed for each of the following. If there is an “error” indicate how you could fix it. | |
| int x = 0;  int y = 0; System.out.println(x/y); |  |
| double x = 0;  double y = 0;  System.out.println(x/y); |  |
| int x = 100;  double y = 0;  System.out.println(x/y); |  |
| int x = -100;  double y = 0;  System.out.println(x/y); |  |

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| **Skill 4.4 Exercise 1** |
| Write code that will create a constant variable AVOGADRO that is equal to 6.022 x 1023 |
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| Indicate whether the following code is legal or illegal. If illegal indicate why. |
| final double p = 3.14;  int r = 5;  double c = 2 \* p \* r;  p = c; |