**Resistance Value and Tolerance Range Answer KEY**

Determine the resistance value and tolerance range of the following resistors.

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|  |  | A.) Indicated Resistance: **100000Ω**  B.) Tolerance: **5000**  C.) Acceptable Resistance Value Range: **95000** **–** **105000** **Ω** |
|  |  | A.) Indicated Resistance: **720000 Ω**  B.) Tolerance: 36000  C.) Acceptable Resistance Value Range: **684,000** **–** **756,000** **Ω** |
|  |  | A.) Indicated Resistance: **2200 Ω**  B.) Tolerance: **110 Ω**  C.) Acceptable Resistance Value Range: **2090** **–** **2310** **Ω** |
|  |  | A.) Indicated Resistance: **65 Ω**  B.) Tolerance: **3.25**  C.) Acceptable Resistance Value Range: **61.75** **–** **68.25** **Ω** |
|  |  | A.) Indicated Resistance: **4 Ω**  B.) Tolerance: **.2**  C.) Acceptable Resistance Value Range: **3.8** **–** **4.2** **Ω** |
|  |  | A.) Indicated Resistance: **1000 Ω**  B.) Tolerance: **100**  C.) Acceptable Resistance Value Range: **900 – 1100 Ω** |
|  |  | A.) Indicated Resistance: **8000**  B.) Tolerance: **400**  C.) Acceptable Resistance Value Range: **7600** **–** **8400** **Ω** |
|  |  | A.) Indicated Resistance: **1800000 Ω**  B.) Tolerance: **90,000**  C.) Acceptable Resistance Value Range: **1710000** **–** **1891000** **Ω** |
|  |  | A.) Indicated Resistance: **570 Ω**  B.) Tolerance: **28.5**  C.) Acceptable Resistance Value Range: **541.5** **–** **598.5** **Ω** |
|  |  | A.) Indicated Resistance: **200000 Ω**  B.) Tolerance: **10,000**  C.) Acceptable Resistance Value Range: **190,000** **–** **210,000** **Ω** |

1. How would you tell a 1 W resistor from a ½ W Resistor?
2. The color code is different
3. The 4th band is silver
4. The physical size is different
5. The leads are different length
6. Which of the following is the formula for heat dissipation?



2. 
3. 
4. 