

Practice Problems: Thermal Energy, Temperature, Heat

1. What is the difference between Thermal Energy and Heat?
2. What is temperature a measure of?
3. We have a 2 kg block of steel and a 1 kg block of steel, both at 21°C. Which one has more thermal energy and why?
4. True or False: Temperature is not dependent on number of particles in an object. Explain.
5. Convert the following temperatures to Celsius:
 - a. 100 K
 - b. 273 K
 - c. 212 F
 - d. 88 F
6. Convert the following temperatures to Kelvin
 - a. 100 C
 - b. - 50 C
 - c. 0 C
 - d. 300 F