

30. Liquid nitrogen boils at 77.2 K. What is this temperature in degrees Celsius?
31. The element silver melts at 960.8°C and boils at 2212°C. Express these temperature in kelvins.
- 960.8°C = _____ K 2212°C = _____ K
32. State the relationship between degrees Celsius and kelvins.
33. Chocolate cookies are baked at 190 °C. Express this temperature in kelvins.
34. Surgical instruments may be sterilized by heating at 170°C for 1.5 hours. Convert to kelvins.
35. The boiling point of the element argon is 87 K. What is the boiling point of argon in degrees Celsius?
65. Which would melt first, germanium with a melting point of 1210 K or gold with a melting point of 1064°C.
66. List two possible reasons for precise, but inaccurate measurements.
67. Rank these numbers from smallest to largest.
5.3 x 10⁴, 57 x 10³, 4.9 x 10⁻², 0.0057, 5.1 x 10⁻³, 0.0072 x 10²
69. Find the relationship between the Fahrenheit and Celsius temperature scales.
70. Which is larger?
a) 1 cg or 1 mg
b) 1 L or 1 cL
c) 1 cal or 1 kcal
d) 1 ms or 1 cs
e) 1 μL or 1 mL
f) 1 mm³ or 1 dm³
72. A piece of wood sinks in gasoline but floats in ethanol. Give a range of possible densities for the wood.

Answer # 73 and 74 on the back.