



Heat Homework 1 Heat and Temperature, Cooling Curves

1) Copy and complete the following sentences:

Heat is a form of _____. It is measured in units called _____. (2)

Temperature is a measure of how _____ or _____ an object is. (1)

2) What is the unit of temperature? _____ (1)

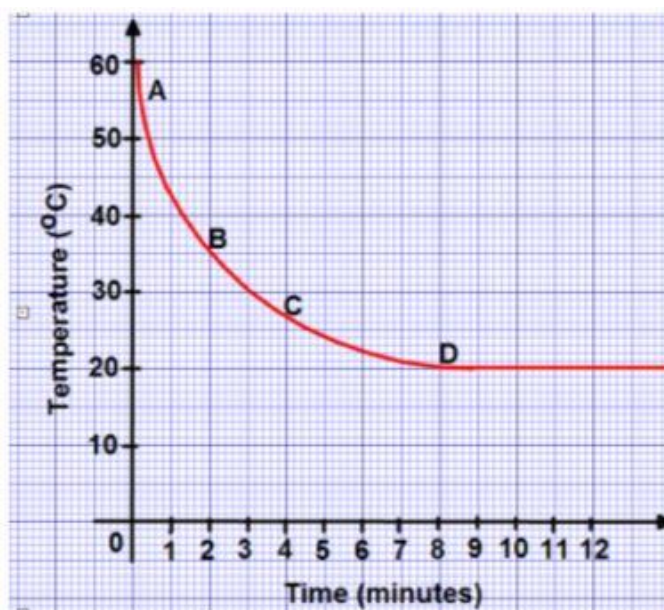
3) A pupil set up an experiment with two beakers of water, in a room which had a temperature of 23°C . **Beaker A** had 100 ml of water in it, and **Beaker B** had 500 ml.

Both beakers were heated up to 70°C using a Bunsen burner.

a. Which beaker would cool down more quickly? _____ (1)

b. What temperature would both the beakers eventually cool down to? _____ (1)

4) The following graph was obtained for a beaker of hot water cooling down.



a) At which point is the water losing heat fastest: A, B, C, or D? _____ (1)

b) From the graph, what is the temperature of the room? _____ (1)

c) If the same beaker of water cooled down in a room where the temperature was 10°C , describe 2 ways in which the cooling curve would change. (2)