**Power Problems**

**1)** It takes 7.0 minutes to bake 1 potato in my 1200 W microwave.

How much energy is involved? In Joules and in kWh.

**2)** A 40.0 Ω toaster was hooked up to a 120 V source is turned on for 2.0 min and 30.0 s.

What is the power rating of the toaster?

**3)** Use dimensional analysis to convert Joules to kWh.