

Ejercicio n° 1. T1.

Datos

$$1 \text{ kWh} = 0'08 \text{ €}$$

$$t = 1 \text{ semana}$$

$$P = 60 \text{ W}$$

$$Q = ?$$

$$\text{Coste} = ?$$

$$P = \frac{W}{t} \Rightarrow W = E = P \cdot t = 0'06 \cdot 168 = 10'08 \text{ kWh.}$$

$$1 \text{ semana} = 7 \text{ días} \cdot \frac{24 \text{ h}}{1 \text{ día}} = 168 \text{ h}$$

$$\text{Coste semanal} = 10'08 \cdot 0'08 = 0'8064 \text{ €}$$

El cálculo en calorías será:

$$10'08 \text{ kWh} \cdot \frac{10^3 \text{ W}}{1 \text{ kW}} \cdot \frac{3600 \text{ s}}{1 \text{ h}} = 36288.000 \text{ J}$$

$$36288.000 \text{ J} \cdot \frac{1 \text{ cal}}{4'18 \text{ J}} = 8681.339'713 \text{ cal}$$