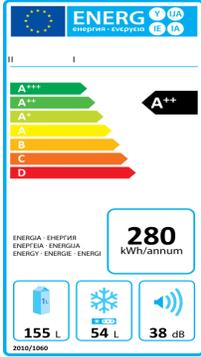


Worksheet

1. Every appliance in your home uses a certain amount of electricity. This amount can be determined by looking at the power rating of the appliance.

The image below shows the energy label of a fridge. The average energy consumed by this fridge in a year is _____ J.



2. The amount of energy is based on the monthly usage determined by the meter reading
Four electrical devices are used according to the following data:

- 700W fridge on for 32 hour
- 1500W stove element on for 15.5hours
- 250 W TV on for 100 h
- Four 20 W led lights, each for a total of 55hours and 45 minutes

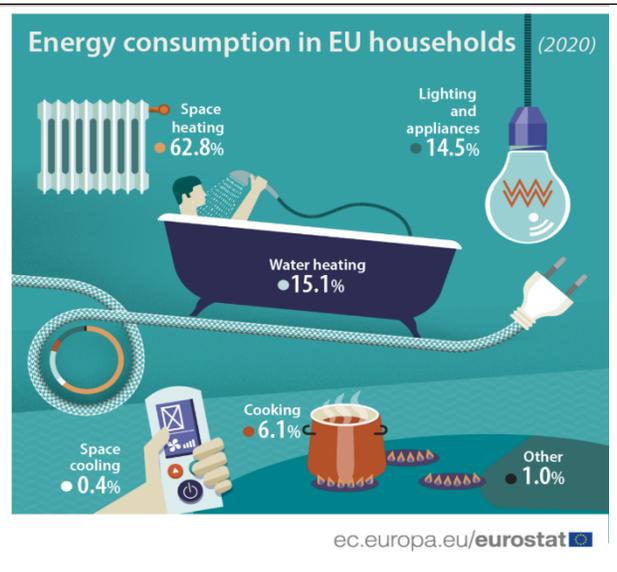
The cost of electrical energy charged by the company is 0.20euro per kilowatt hour

What is the cost of using these four devices during the month of April?

Fridge	$0,7kW * 32h=22.4kW h$
Stove	
TV	
Lights	
Total cost	

3.

In the EU, the main use of energy by households is for heating their homes (62.8 % of final energy consumption in the residential sector). Electricity used for lighting and most electrical appliances represents 14.5 % (this excludes the use of electricity for powering the main heating, cooling or cooking systems), while the proportion used for water heating is slightly higher, representing 15.1 %. Main cooking devices require 6.1 % of the energy used by households, while space cooling and other end-uses cover 0.4 % and 1.0 % respectively. Heating of space and water represents 77.9 % of the final energy consumed by households.



Prepare a graph using MS Excel or Google Sheets that shows the ways we use energy in our homes. Do you think a PIE or a BAR chart would be better?