Electrical Power Worksheet

1. Calculate the power rating of an electric toaster that uses 210 000 J while toasting bread for 140 seconds.
2. Calculate the power rating of a coffee grinder that operates on a voltage of 120 V. A current of 1.7 A flows through the motor.
3. Calculate the power rating of a coffee maker that operates on voltage of 120 V. A current of 5.7 A flows through the heater in the coffee maker.
4. Calculate the power rating of an electric kettle. A current of 12.5 A flows through the heating element and the operating voltage is 120 V.
5. Calculate the power rating of a portable electric sander that operates at a voltage of 12 V. A current of 2.5 A flows through the motor operating the sander.
6. Calulate the power rating of a water heater that operates at 240 V and a current of 15 A flows through the heating element.