Electrical Energy Questions

Equation: **E = P × t**

E = Electrical Energy (J), P = Power (W), t = Time (s)

1. A device with a power rating of 100 W operates for 60 seconds. How much electrical energy does it use?

2. A kettle rated at 2000 W is used for 120 seconds. Calculate the electrical energy consumed.

3. A 500 W heater runs for 300 seconds. How much energy is transferred?

4. A 60 W light bulb is left on for 180 seconds. How much electrical energy does it use?

5. A 750 W microwave operates for 90 seconds. Find the electrical energy used.

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6. A 1000 W hairdryer is used for 150 seconds. Calculate the energy transferred.

7. A 150 W fan is on for 240 seconds. How much energy does it consume?

8. A 300 W computer runs for 360 seconds. What is the electrical energy used?

9. A 400 W television is turned on for 600 seconds. Calculate the energy consumption.

10. A 250 W vacuum cleaner operates for 200 seconds. How much energy is used?