

**The Physics of Energy, Explained Simply  
&  
The Physics of Energy For Beginners**

**Electrical Energy Questions**

Equation:  **$E = P \times t$**

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

1.  $E = 100 \text{ W} \times 60 \text{ s} = 6000 \text{ J}$
2.  $E = 2000 \text{ W} \times 120 \text{ s} = 240000 \text{ J}$
3.  $E = 500 \text{ W} \times 300 \text{ s} = 150000 \text{ J}$
4.  $E = 60 \text{ W} \times 180 \text{ s} = 10800 \text{ J}$
5.  $E = 750 \text{ W} \times 90 \text{ s} = 67500 \text{ J}$
6.  $E = 1000 \text{ W} \times 150 \text{ s} = 150000 \text{ J}$
7.  $E = 150 \text{ W} \times 240 \text{ s} = 36000 \text{ J}$
8.  $E = 300 \text{ W} \times 360 \text{ s} = 108000 \text{ J}$
9.  $E = 400 \text{ W} \times 600 \text{ s} = 240000 \text{ J}$
10.  $E = 250 \text{ W} \times 200 \text{ s} = 50000 \text{ J}$

