

32 A fixed resistor of resistance $12\,\Omega$ is connected to a battery. There is a current of $0.20\,\text{A}$ in the resistor. The current is now doubled.

What is the new power dissipated in the resistor?

A $0.48\,\text{W}$

B $0.96\,\text{W}$

C $1.9\,\text{W}$

D $4.8\,\text{W}$

33 There is a current in a resistor for an unknown time