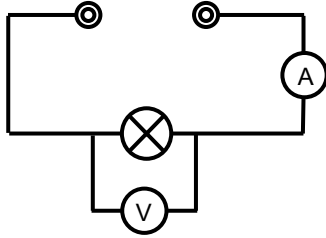


Power, Voltage and Current

1.

In the circuit below the voltmeter reads 12V and the ammeter reads 3 A.

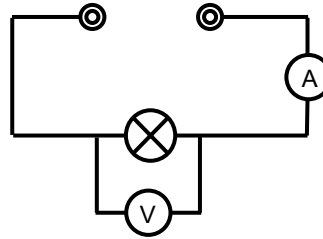
Calculate the electric power of the lamp



2.

In the circuit shown the ammeter reads 2 A and the voltmeter reads 18 V.

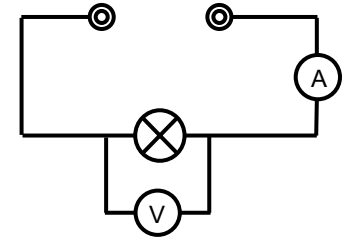
Calculate the electric power of the lamp



3.

In the circuit shown the voltmeter reads 230 V and the ammeter reads 0.5 A

Calculate the electric power of the lamp



4.

An electric kettle has a power rating of 2000 Watts.

The kettle is connected to the 230 V mains socket.

Find the amount of electrical energy transformed by the kettle in 3 minutes

Calculate the electric current that flows into the kettle



5.

A hair dryer has a power rating of 1500 W. It is connected to the 230 V mains socket.

Find the amount of electrical energy used up by the hairdryer in 5 minutes.

Calculate the current in the hairdryer..



6.

An electric bar fire has a power rating of 6000 W. It is connected to the 230V mains.

Find the amount of electrical energy used by the fire in one hour

Calculate the current taken from the mains by the electric fire.

