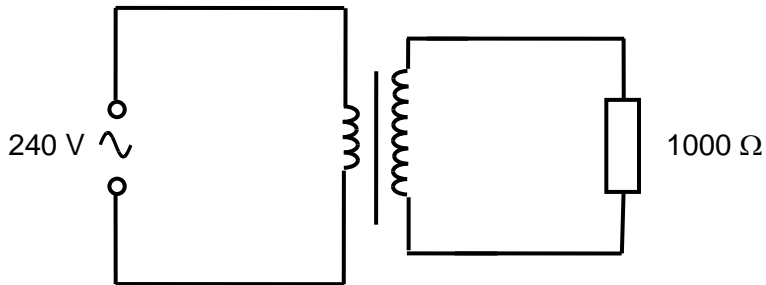


- 26** An ideal transformer is used to step-up a 240 V a.c. power supply. The output is used to heat a $1000\ \Omega$ resistive load. The ratio of the primary turns to secondary turns is 1:5.



What is the current in the primary coil?

- A** 0.24 A **B** 1.2 A **C** 6.0 A **D** 36.0 A

- 27** A 0.4 W lamp is connected in series with a 1000 Ω resistor. The circuit is connected to a 240 V a.c. power supply. What is the current in the circuit?