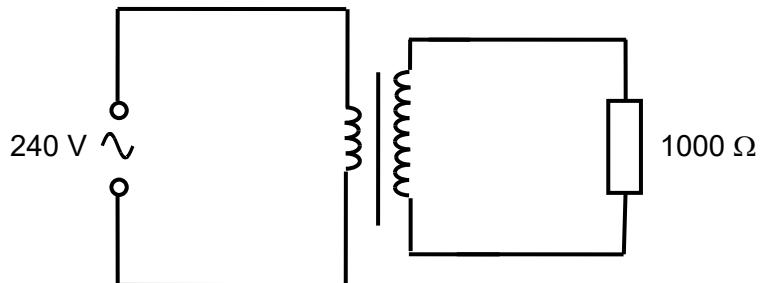


- 27** An ideal transformer is used to step-up a 240 V a.c. power supply. The output is used to heat a $1000\ \Omega$ resistive load. The ratio of the primary turns to secondary turns is 1:5.



What is the current in the primary coil?

A 0.24 A

B 1.2 A

C 6.0 A

D 36 A