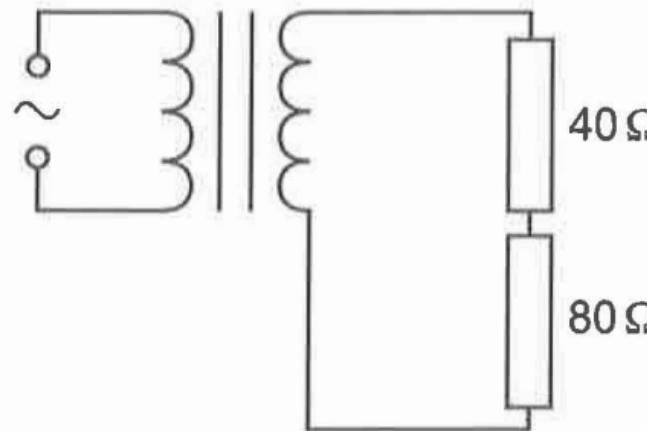


- 34 The secondary coil of a 2:1 step-down transformer is connected in series to two resistors of resistance 40Ω and 80Ω as shown.



The alternating supply to the primary coil delivers a peak voltage of 180 V.

What is the value of the average power dissipated in the 80Ω resistor?

A 11 W

B 23 W

C 45 W

D 90 W