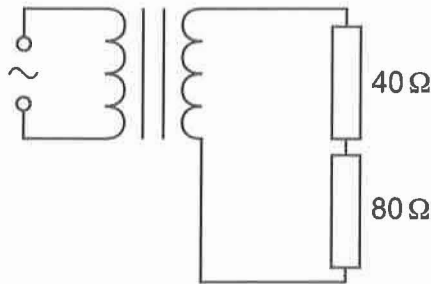


- 34** The secondary coil of a 2:1 step-down transformer is connected in series to two resistors of resistance $40\ \Omega$ and $80\ \Omega$ as shown.



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 $80\ \Omega$ resistor?

- A** 11 W **B** 23 W **C** 45 W **D** 90 W