

- 26** A generator produces a current of 60 A r.m.s. at a voltage of 120 V r.m.s. The voltage is stepped up to 4500 V r.m.s. by an ideal transformer and transmitted through a power line of total resistance 1.0  $\Omega$ .

What percentage of the power is lost in the transmission line?

**A** 0.048 %

**B** 0.036 %

**C** 0.024 %

**D** 0.018 %