

- 27** A generator produces a r.m.s. current of 50 A at a r.m.s. voltage of 240 V. The voltage is stepped up to 50 kV r.m.s. by an ideal transformer and transmitted through a power line with a total resistance of $100\ \Omega$.

What is the percentage power lost in the transmission?

- A** 0.048% **B** 0.20% **C** 0.48% **D** 2.0%