

**17** In many old-style filament lamps, as much as 93 J of energy is emitted as thermal energy for every 7 J of energy emitted as light.

What is the efficiency of the lamp, as the percentage of electrical energy converted to light energy?

**A** 7 %

**B** 8 %

**C** 92 %

**D** 93 %

**18** An electric railway locomotive has a maximum mechanical output power of 1.0 MW. Electrical