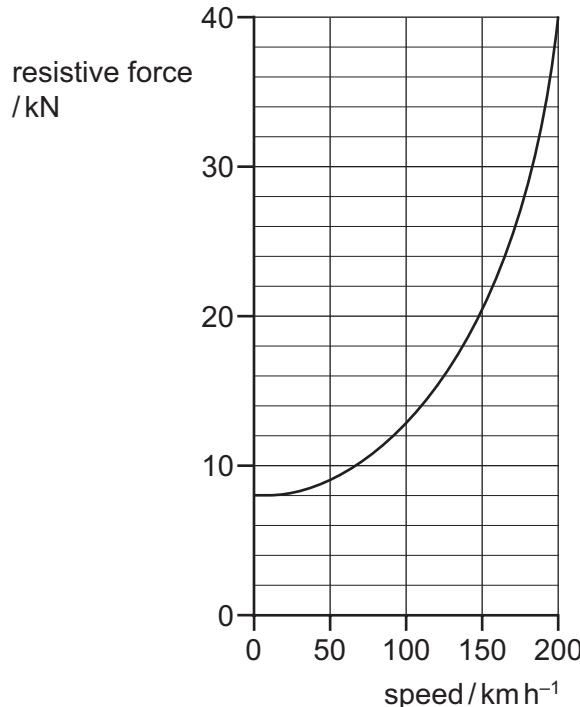


**16** The graph shows how the total resistive force acting on a train varies with its speed.

Part of this force is due to wheel friction, which is constant. The rest is due to wind resistance.



What is the ratio  $\frac{\text{wind resistance}}{\text{wheel friction}}$  at a speed of  $200 \text{ km h}^{-1}$ ?

**A** 4

**B** 5

**C** 8

**D** 10

**17** The pump of a water pumping system uses 2.0 kW of electrical power when raising water. The