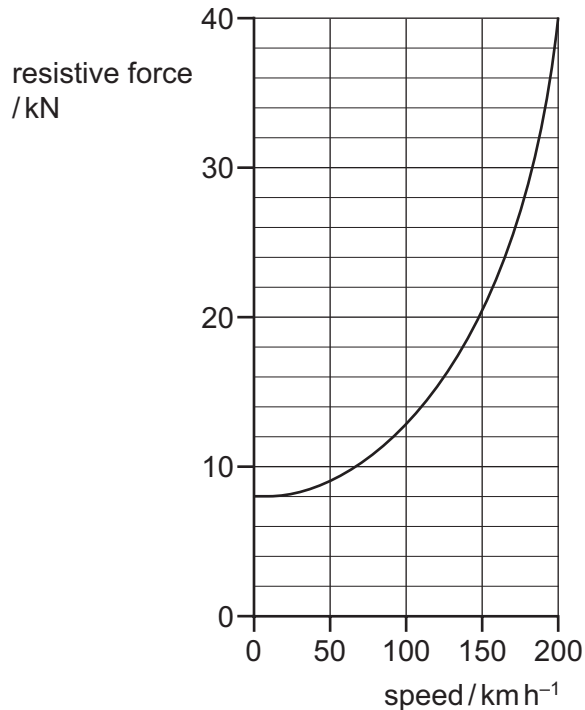


16 The graph shows how the total resistive force acting on a train varies with its speed.

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 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