

- 5** A skier of mass 60 kg skies down a slope from rest and reaches the bottom with a speed of  $20 \text{ m s}^{-1}$ . The vertical height of the slope is 50 m and the effective distance the skier moves along the slope is 200 m.

What is the average frictional force acting on his ski if he skies down the slope under the influence of gravity only?

**A** 87 N

**B** 150 N

**C** 240 N

**D** 2100 N