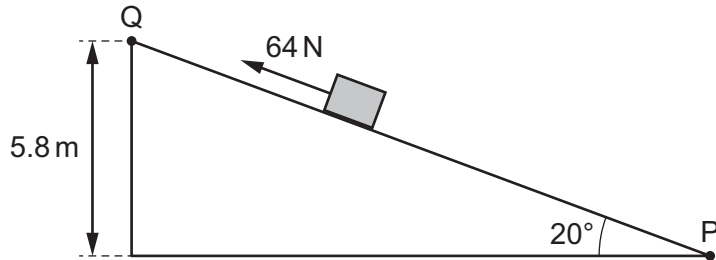


- 19** A box of mass 4.9 kg is pushed at a constant velocity from point P at the bottom of an inclined plane to point Q at the top.

The box is pushed by a force of 64 N acting parallel to the slope.

The slope is inclined at an angle of 20° to the horizontal and the box moves through a vertical height of 5.8 m .



What is the work done against the frictional force acting on the block between P and Q?

- A** 280 J **B** 810 J **C** 960 J **D** 1100 J