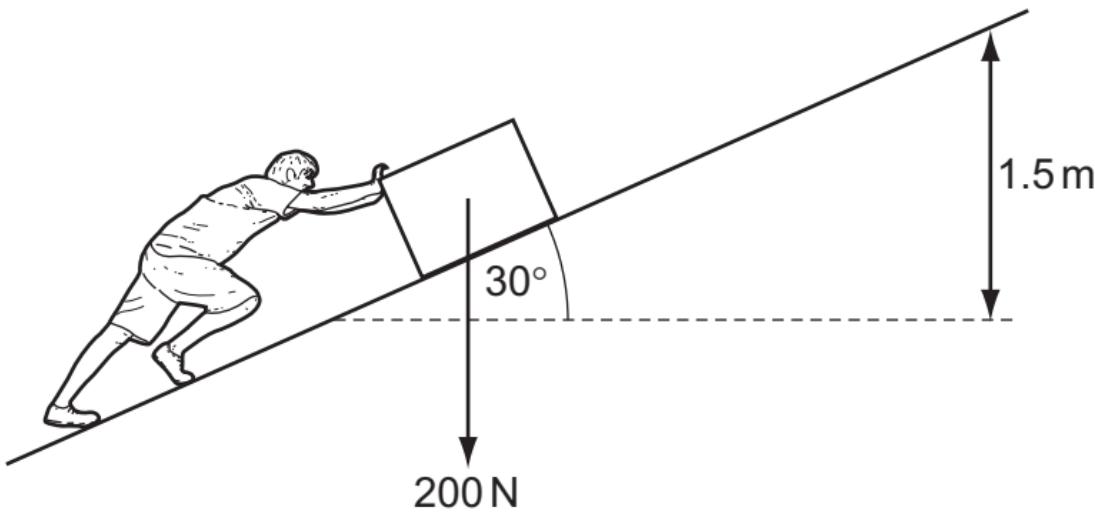


- 14 A box of weight 200 N is pushed so that it moves at a steady speed along a ramp, through a height of 1.5 m. The ramp makes an angle of  $30^\circ$  with the ground. The frictional force on the box is 150 N while the box is moving.



What is the work done by the person?

A 150 J

B 300 J

C 450 J

D 750 J

- 15 A raindrop of mass  $m$  is falling vertically through the air with a steady speed  $v$ . The raindrop