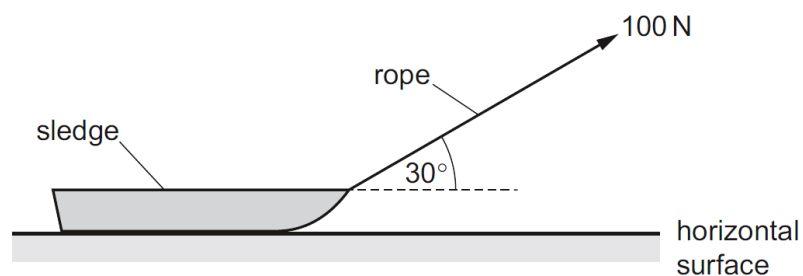


- 9** A rope is attached to a sledge and a boy uses the rope to pull the sledge along a horizontal surface with a constant velocity. The tension in the rope is 100 N and the rope is held at  $30^\circ$  to the horizontal.



How much work does the boy do on the sledge when he pulls it a distance of 5.0 m along the surface?

- A** 250 J                      **B** 290 J                      **C** 430 J                      **D** 500 J