

16 A horizontal force of 90 N is used to push a box across a horizontal floor. The frictional force on the box is 50 N.

What is the gain in kinetic energy of the box when it is moved through a distance of 6.0 m?

A 240 J

B 300 J

C 540 J

D 840 J

17 A cyclist is capable of generating an average power of 2.0 kW during a 1.0 km sprint trial. His