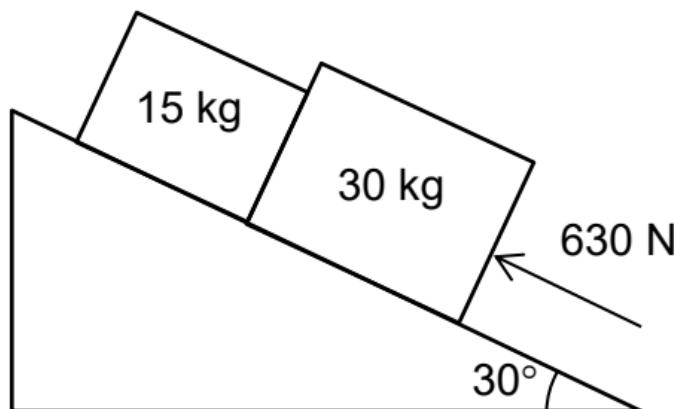


- 3 Two crates, of masses 15 kg and 30 kg, are in contact and placed on a frictionless incline that makes an angle of 30° to the horizontal. A constant force of 630 N parallel to the surface of the incline is applied to the 30 kg crate.



What is the force that each crate exerts on the other?

A 63 N

B 140 N

C 210 N

D 420 N

- 4 The force F required to extend a spring of unstretched length x_0 to a length x is measured