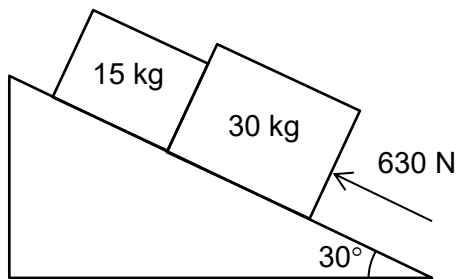


- 3** Two crates, of masses 15 kg and 30 kg, are in contact and placed on a frictionless incline that makes an angle of 30° to the horizontal. A constant force of 630 N parallel to the surface of the incline is applied to the 30 kg crate.



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