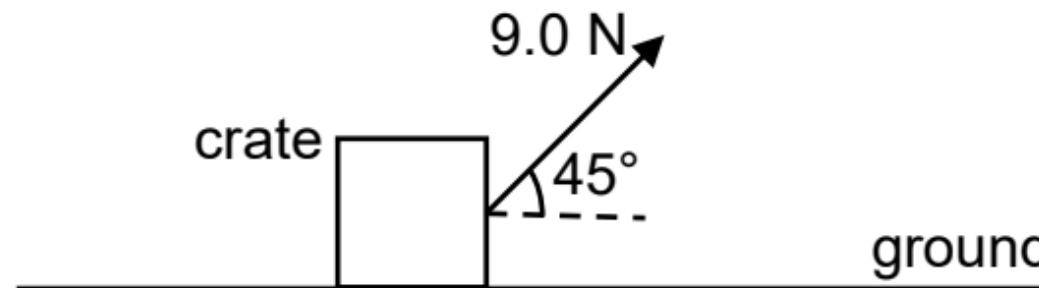


- 4 A student pulls a 2.0 kg crate with a force of 9.0 N directed at an angle 45° from the horizontal as shown in the diagram. A frictional force of 2.0 N acts between the crate and the ground.



What is the acceleration of the crate?

- A 2.2 m s^{-2} B 3.2 m s^{-2} C 3.5 m s^{-2} D 4.5 m s^{-2}

- 5 Two frictionless trolleys move along the same straight line towards one another. Their masses and initial speeds are: