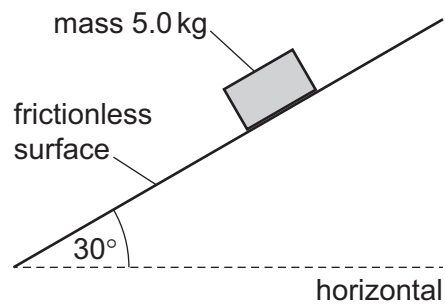


- 7 A mass of 5.0 kg is released from rest on a frictionless surface inclined at  $30^\circ$  to the horizontal. Air resistance is negligible.



How far does the mass travel in a time of 0.80 s?

- A** 1.6 m      **B** 2.0 m      **C** 2.7 m      **D** 3.1 m
- 8 What is **not** a statement of one of Newton's laws of motion?
- A** If body X exerts a force on body Y, body Y exerts an equal and opposite force on body X.
- B** If no resultant force acts on a body it has constant velocity.
- C** The rate of change of momentum of a body is proportional to the resultant force acting on it and takes place in the direction of the force.
- D** The total momentum of a system of interacting bodies is constant if there is no external force.