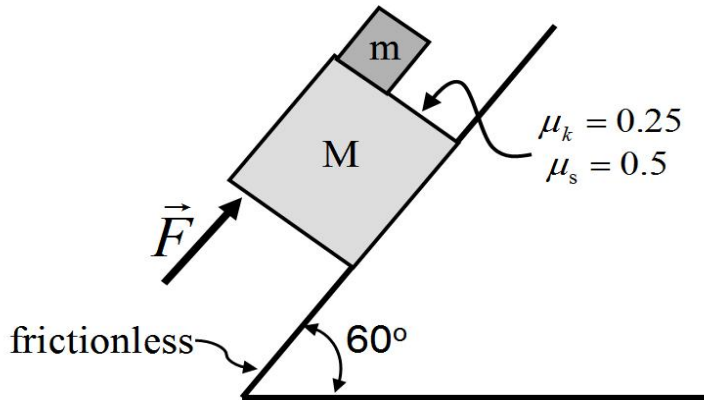


How is the Physics@Mac Online Physics Competition Different?

A typical physics contest question:

Two masses, m and M , are pushed upward along a frictionless inclined surface with a force F as shown in the figure below. Calculate the minimum force F that prevents m from sliding downward on M . $m=1\text{ kg}$, $M=9\text{ kg}$. Let $g=10\text{ m/sec}^2$. Answer in Newtons.



A typical Physics@Mac Online Physics Competition Question:

A hockey puck is shot along a frictionless ice surface towards a net with an initial horizontal velocity v_0 . At the same time a ball is thrown from the same point with the same initial horizontal velocity v_0 towards the net as shown in the figure below. Which crosses the goal line first? Answer a, b, c, or d.

a. the puck b. the ball c. they both cross at the same time d. there is not enough information

