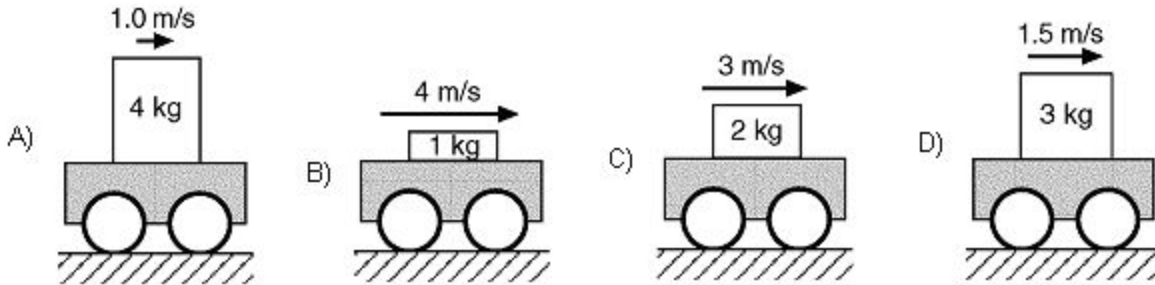


Name _____
Regents Physics
Period _____

Date _____
Forces 1D WS 2R
Mr. Moy

Newton's 1st Law

1. A lab cart is loaded with different masses and moved at various velocities. Which diagram shows the cart-mass system with the greatest inertia?



2. Phil Down is being chased through the woods by a large moose which he was attempting to photograph. The enormous mass of the moose is extremely intimidating. Yet, if Phil makes a zigzag pattern through the woods, he will be able to use the large mass of the moose to his own advantage. Explain in terms of inertia and Newton's First Law of Motion.
3. Two bricks are resting on the edge of a lab table. Anne Sodafone stands on her toes and spots the two bricks. She acquires an intense desire to know which of the two bricks is more massive. Since Ann is vertically challenged, she is unable to reach high enough and lift the bricks; she can, however, reach high enough to give each brick a push. Discuss how the process of pushing the bricks will allow Anne to determine which of the two bricks is more massive. What difference will Anne observe and how can this observation lead to the necessary conclusion?