10. . A person is pushing an object of mass m along the ground with a force ***F***. The coefficient of kinetic friction between the object and the ground is . The object is accelerating, but then the person stops pushing and the object slides to a halt. The person then starts pushing on the object again with a force ***F***, but the object doesn’t budge. The maximum coefficient of static friction between the object and the ground is . Which of the following statements is true? (A) (B) (C) (D) (E) The scenario described is physically impossible