3. . How much work does the force of gravity do in pulling a 10 kg box down a 30Âº inclined plane of length 8.0 m? Note that sin 30 = cos 60 = 0.500 and cos 30 = sin 60 = 0.866. (A) 40 J (B) 69 J (C) 400 J (D) 690 J (E) 800 J