

COMPILATION: Unit 7 - Worksheet 3b

Date: Thu, 18 Feb 1999
From: Jim Rynearson <jrynear@LPS.ORG>
Subject: Unit 7 Worksheet 3b

I need some help on worksheet 3b for unit 7. The question I have is on problem 8. When you are finding the force of friction do you use F_g which is 490N times μ , or do you use F_n which is F_g - the y part of your applied force which works out to be 440N times μ . Please help me understand why you use what you use.

Date: Fri, 19 Feb 1999
From: Sean McKeever
Subject: Unit 7 WS 3b

The kinetic frictional force is directly related to the normal force, not the force of gravity. In this problem, by applying the force at an angle the friction between the crate and surface decreases. The extreme of this situation would be when the applied force is perpendicular to the surface, in which case the frictional force would be zero. I hope this helps.

Date: Fri, 19 Feb 1999
From: Bob Baker <bob.baker@WORLDNET.ATT.NET>
Subject: Unit 7 WS 3b

As an answer to the question, I would ask: Does the interactive force of friction come from the interaction between the block and the earth (gravitational interaction force) or does the interactive force of friction come from the interaction between the block and the surface?