

Chpt 6 rev 2

1. What is μ for a 24 kg box sliding down a 35° ramp at a constant velocity?
2. What would its acceleration be if μ was 0.30? (same 24 kg box and 35° ramp)
3. A 24 kg box is pulled across a horizontal surface at a constant speed by a force of 89 N acting 37° above the horizontal. What is μ ?
4. What would the box's (from #3) acceleration be if μ was 0.17?
5. What acceleration does a 79 N force give a lawnmower if the mass of the mower is 15.4 kg and μ is 0.10 and the 79 N force is directed down the handle at 44° ?
6. What is μ if a 44 kg box slides down a 23° ramp at a constant velocity?
7. What would the acceleration be if μ is 0.21