

Phys 1240: Sound and Music

www.colorado.edu/physics/phys1240

LAST: pressure and the nature of sound

TODAY: waves and oscillations

NEXT: more on waves

READ: Finish Ch 2!

CAPA tonight: 1 was chopped, fixed
~1 hr after class *last Thurs*,

Grab a corrected copy if you want, or
just read the screen!)

If there is really a force of 10^5 N (that's 100,000 N, over 11 *tons!*) on each square meter of a glass window, why is it that the window does not shatter?

- a) That is such a small force it does not matter
- b) The frame of the window exerts a counterforce which balances the forces out
- c) Glass is stronger than you think
- d) There is an equal but opposite force pushing against the window from the other side
- e) Gravity counteracts the force

Who is more likely to damage a hardwood dance floor, while just standing around?

- a) A 250 lb cowboy wearing boots with 6 cm x 6 cm heels
- b) A 100 lb waif-like woman wearing 1 cm x 1 cm high heels
- c) They will do equal damage
- d) Not enough information to make an informed choice

(Pressure = Force/ area)