

PHY102
Physics of Music
Spring 2008
Due before class on February 15

1) You hear a thunder 4 seconds after you see the lightning.
Estimate how far from you the thunder occurred.

2) Is sound on air faster or slower than:

- Fast car
- Small propeller airplane
- Commercial jetliner
- Jetfighter
- Light

3) *Estimate* the total number of pianos keys in the US. Aim at a number within a factor of 10 or so from the correct one. (This question may seem strange and, in a sense, it is. It is however a classic and it's been known to be used at job interviews for business consulting positions and graduate school admissions in physics, among other places.)