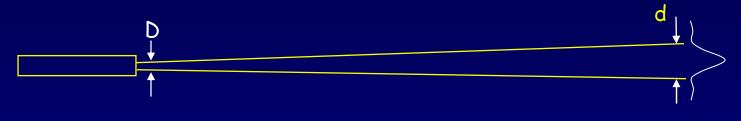
Act 1

In 1985, a laser beam with a wavelength of $\lambda = 500$ nm was fired from the earth and reflected off the space shuttle Discovery, in orbit at a distance of L = 350 km away from the laser.





To make a smaller spot on the shuttle, what should we do to the beam diameter at the source?

- a. reduce it b. increase it c. cannot be made smaller