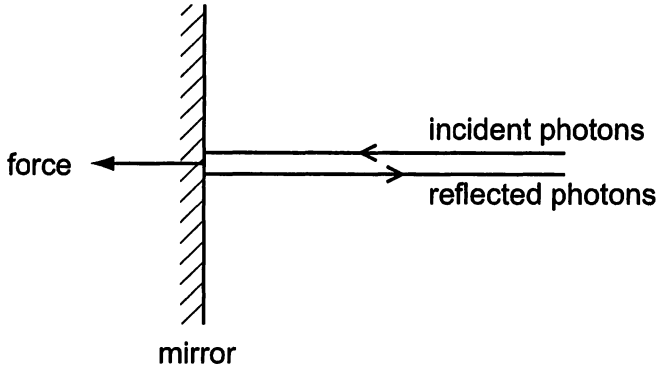
29 Photons strike a mirror normally and are reflected back along their initial path. The change in momentum of the photons as they are reflected from the mirror causes a small force to act on the mirror, as shown in the diagram.



The wavelength of the photons is halved and the intensity of the photon beam remains the same.

Which quantity is halved?

A the energy of each photon striking the mirror

B the number of photons striking the mirror each second

C the momentum of each photon striking the mirror

D the force acting on the mirror