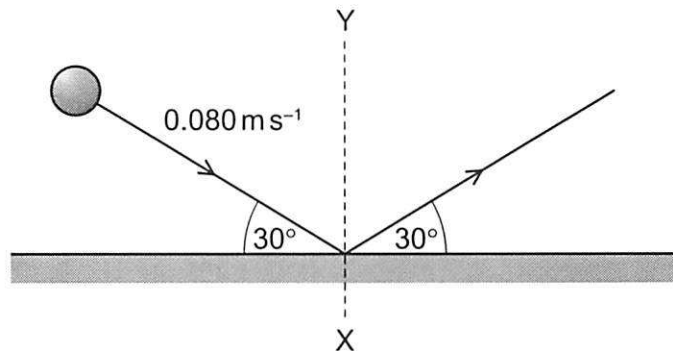


- 10 A snooker ball of mass  $0.40\text{ kg}$  moving at  $0.080\text{ m s}^{-1}$  collides with the side of a table at an angle of  $30^\circ$ . The ball is in contact with the side for  $0.20\text{ s}$ . It bounces off at the same angle with the same speed.



What is the average force on the ball from the side in the direction XY?

- A  $0.080\text{ N}$       B  $0.14\text{ N}$       C  $0.16\text{ N}$       D  $0.28\text{ N}$