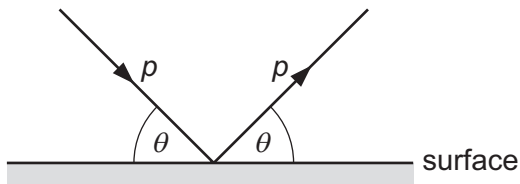


- 8 A ball strikes a horizontal surface with momentum p at an angle θ to the surface, as shown.



The ball rebounds with the same magnitude of momentum at an angle θ to the surface.

The ball is in contact with the surface for time t .

What is the magnitude of the average resultant force acting on the ball during the collision?

- A** zero **B** $\frac{2p}{t}$ **C** $\frac{2p\cos\theta}{t}$ **D** $\frac{2p\sin\theta}{t}$