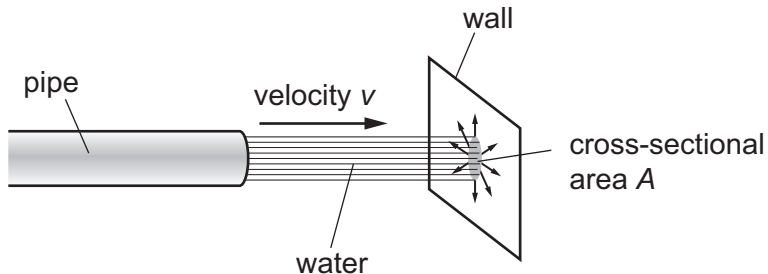


- 9 Water flows out of a pipe and hits a wall.



When the jet of water hits the wall, it has horizontal velocity  $v$  and cross-sectional area  $A$ .

The density of the water is  $\rho$ . The water does not rebound from the wall.

What is the force exerted on the wall by the water?

**A**  $\frac{\rho v}{A}$

**B**  $\frac{\rho v^2}{A}$

**C**  $\rho A v$

**D**  $\rho A v^2$

- 10 A stationary firework explodes into three pieces. The masses and the velocities of the three