39. We use the equation of continuity. Let v_1 be the speed of the water in the hose and v_2 be its speed as it leaves one of the holes. $A_1 = \pi R^2$ is the cross-sectional area of the hose. If there are N holes and A_2 is the area of a single hole, then the equation of continuity becomes

$$v_1 A_1 = v_2 (NA_2) \implies v_2 = \frac{A_1}{NA_2} v_1 = \frac{R^2}{Nr^2} v_1$$

where R is the radius of the hose and r is the radius of a hole. Noting that R/r = D/d (the ratio of diameters) we find

$$v_2 = \frac{D^2}{Nd^2}v_1 = \frac{(1.9 \text{ cm})^2}{24(0.13 \text{ cm})^2}(0.91 \text{ m/s}) = 8.1 \text{ m/s}$$