

$$\frac{\Delta m_1}{\Delta m_2} =$$

$$\Downarrow$$

$$\frac{\rho A_1 u_1 \Delta t}{\rho A_2 u_2 \Delta t} =$$

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$$\frac{A_1 u_1}{A_2 u_2} =$$

$$\frac{1}{2} <$$

$$\frac{1}{2} A_2 \Rightarrow$$

$$\frac{u_1}{u_2} >$$

$$\frac{A_1}{A_2} >$$

$$\frac{A_2}{u_1} <$$

$$\frac{u_1}{u_2} <$$

$$\Delta m_1 = \rho_{\text{air}} A_1 u_1 \Delta t$$

(1)

$$\Delta m_2 = \rho_{\text{air}} A_2 u_2 \Delta t$$

(2)

$$u_2 = \frac{A_1}{A_2} u_1$$

(3)

$$u_2 = \frac{65m \cdot \text{h}}{15m \cdot \text{h}} \cdot 10m/s = 43.3m/s$$

(4)

$$\pi R^2 u_1 = \pi r^2 u_2$$

(5)

$$\frac{2u_2^2 = \frac{m}{2} u_1^2 + mgh \Downarrow u_2^2 = u_1^2 + 2gh,}{g}$$

$$9.82m/S^2$$

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