

SOME CONSTANTS ARE NEEDED!

CONSISTENT UNITS!

CM, g, MIN

$$Q^{IN} = 12.0 \frac{L}{min} \times \frac{1000 cm^3}{L} = \underline{12000 cm^3/min}$$

$$\rho_E^{IN} = 0.7893 g/cm^3$$

$$D = 75 cm$$

$$d = 1.0 cm$$

$$C = 0.58$$

$$g = \frac{981 cm}{s^2} \times \frac{60^2 s^2}{min^2} = \underline{3531600 cm/min^2}$$

ANSWERS

$$TIME = 33.08 min$$

$$V = 455.2 L$$