

Chapter 22

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$$\pi \left(\frac{3 \text{ mm}}{2} \right)^2 = 7.07 \text{ mm}^2 (0.15) = 1.06 \text{ mm}^2 \left| \frac{1 \text{ cm}^2}{10^2 \text{ mm}^2} \right| = 0.0106 \text{ cm}^2$$

$$0.20 \frac{\text{ml}}{\text{min}} = 0.20 \frac{\text{cm}^3}{\text{min}} \left(\frac{1}{0.0106 \text{ cm}^2} \right) = \boxed{19 \text{ cm/min}}$$

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a. 1

d. equal

$$g: \frac{10}{8} = \boxed{1.25}$$

b. 2

e. B

c. 1

f. B

a.

30

Gases diffuse 10000 times more quickly than

31

liquids

Somewhere between 30 & 40 ml/min

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