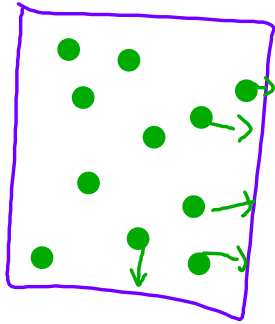
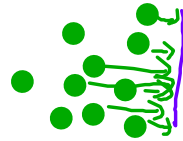
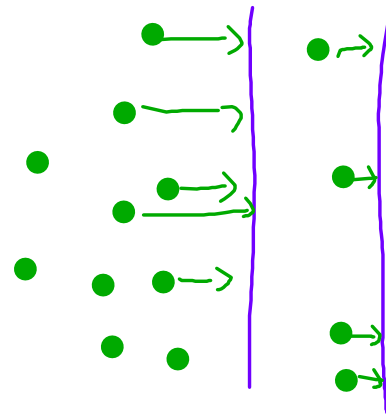


# גזים



מה הוא לחץ?

יחידות לחץ



$$P = \frac{F}{A} \rightarrow N \rightarrow m^2$$

$$1 N = \frac{kg \cdot m}{sec^2}$$

תלש נז'ת

$$P = \frac{kg \cdot m}{sec^2 \cdot m^2} = \frac{kg \cdot \cancel{m}}{sec^2} \cdot \frac{1}{\cancel{m}} = \frac{kg}{m \cdot sec^2} = \frac{N}{m^2} = Pa$$

bar, atm, Torr      psi

|          |                                                   |
|----------|---------------------------------------------------|
| 1 Pa =   | $1 \frac{\text{kg}}{\text{m} \cdot \text{sec}^2}$ |
|          | $1 \frac{\text{N}}{\text{m}^2}$                   |
|          | $10^{-5} \text{ bar}$                             |
|          | $9.86923 \cdot 10^{-6} \text{ atm}$               |
| 1 atm =  | $7.50066 \cdot 10^{-3} \text{ Torr}$              |
|          | $1.01325 \cdot 10^5 \text{ Pa}$                   |
|          | $1.01325 \text{ bar}$                             |
|          | $760 \text{ Torr}$                                |
| 1 bar =  | $10^5 \text{ Pa}$                                 |
|          | $0.986923 \text{ atm}$                            |
|          | $7.50066 \cdot 10^2 \text{ Torr}$                 |
| 1 Torr = | $1.33322 \cdot 10^2 \text{ Pa}$                   |
|          | $1.31578 \cdot 10^{-3} \text{ atm}$               |
|          | $1.33322 \cdot 10^{-3} \text{ bar}$               |
| 1 Torr = | 1 mmHg                                            |

$$3 \text{ bar} = 3 \cdot 7.5066 \cdot 10^2 \text{ Torr}$$

$$3 \text{ bar} = 2250.198 \text{ Torr}$$

