

# Pressure Homework

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List the six properties of gases.

Fill in the table below of conversion factors

$$1 \text{ kPa} = \quad \text{Pa}$$

$$1 \text{ atm} = \quad \text{Pa}$$

$$1 \text{ psi} = \quad \text{Pa}$$

$$1 \text{ mm Hg} = \quad \text{Pa}$$

Perform the following conversions

- Normal tire pressure is 35 psi (gauge pressure). Convert to kPa.

b. The atmospheric pressure on Mars is 600 Pa. Convert to atm.

c. A vacuum provides a suction of 20 kPa. Convert to mm Hg.