

Worksheet: Introduction to Gases

1. Explain why gases have low densities.

2. Do you think pressure would increase or decrease when temperature increases?
Why?

3. Identify property of gas that is measured in each of the following:

a. 425 K

b. 1.0 atm

c. 10.0 L

d. 755 mm Hg

e. 2.00 g O₂

f. 350 K

g. 0.50 mol of He

h. 43.7 mL

i. 396 kPa

4. Perform the following conversions:

a. 0.50 atm to mm Hg

b. 750 torr to psi

c. 467 mm Hg to kPa

d. 37 psi to atm