

1) Explain what pressure is. Draw a diagram to go along with your written explanation.

2) What are the five main units of pressure?

3) Complete the following conversion factors:

1 torr = _____ mm Hg

1 atm = _____ torr

1 atm = _____ kPa

1 atm = _____ mm Hg

1 atm = _____ Pa

1 atm = _____ psi

1 psi = _____ Pa

4) Where did the unit of pressure, atm, come from? What is 1 atm?

5) Convert the following and show your dimensional analysis set up to get credit!

a. 1.75 atm → kPa

e. 456 torr → atm

b. 2.5 atm to → mm Hg

f. 7.4 torr → mm Hg

c. 72.7 atm → pascals

g. 2.48×10^{-3} atm → torr

d. 151.98 kPa → atm

h. 5.28 kPa → mm Hg

6) Come up with your own conversion problem. Write out the problem and then solve it using DA.