

Pressure Conversions

Name: _____

*Show set up and all work (including units) to receive full credit.

1) The air pressure inside a submarine is 0.72 atm. What would be the mmHg inside the submarine?

2) The recommended air pressure in a certain tire is 242 kPa. What is this pressure in atmospheres?

3) An experiment in a lab is performed at a pressure of 749.1 mm Hg. What is this pressure in kPa?

4) What would be the pressure of a room in psi if the mercury read 850 mm Hg?

5) The pressure inside a tank is measured to be 5.7 atm. What is this pressure in psi?

6) Complete the following pressure conversions:

a) 32.0 psi \rightarrow atm

c) 1960 mm Hg \rightarrow psi

b) 25.025 kPa \rightarrow mmHg

d) 5.11 atm \rightarrow kPa

Answers: 1) 547 mmHg 2) 2.39 atm 4) 16.4 psi 6b) 187 mmHg