**Videos 10E - Gauge Pressure Name**

Most pressure gauges compare to Atmospheric

**Gauge pressure is how much more a pressure is**

**than atmospheric**

(i.e. this room is at 0 Gauge - Absolute P is 1 atm more)



Example 1 – If your tyre pressure gauge reads 220 kPa, what is the actual pressure in the tyre in kPa and Pa?

Example 2 – What is the gauge pressure if you have an actual pressure of 1072 Torr?

Whiteboards: **1 atm = 1.013 x 105 Pa = 101.3 kPa = 760 Torr = 14.7 psi**

|  |  |
| --- | --- |
| 1. What is the absolute pressure if you read 35 psi gauge? Answer in psi and Pascals (49.7 psi, 3.42E5 Pa) | 2. If you have an absolute pressure of 812 Torr, what is the gauge pressure? Answer in Torr(52 Torr ) |
| 3. What is the absolute pressure if the gauge pressure is 2.17 x 105 Pa. Answer in Pa(3.18 x 105 Pa ) | 4. If you have an absolute pressure of 42.0 kPa, what is the gauge pressure in kPa?(-59.3 kPa) |