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Answers to Practice Problems A

1. 7.37×10^6 Pa
2. 92.48 mm Hg
3. 0.9869 atm
4. 3.08×10^5 Pa

Homework GENERAL

Additional Practice

1. Define a Pascal in terms of Newtons and meters squared.
Ans. 1 Pascal = 1 Newton/1 meter squared.
2. How many Pascals are in a kiloPascal? *Ans.* 1000 Pa
3. What pressure in Pascals is exerted if a force of 10.0 Newtons is applied over an area of 2.5 square meters?
Ans. 4.0 Pa
4. What pressure in Pascals is exerted if a force of 400.0 Newtons is applied over an area of 4.0 square meters?
Ans. 100 Pa
5. Express the answer to number 4 in kiloPascals. *Ans.* 0.100 kPa
6. How many kiloPascals equal an atmosphere? *Ans.* 101.3 kPa
7. Express the answer to number 4 in atmospheres. *Ans.* 9.87×10^{-4} atm

LS Logical