

Gas Laws Worksheet - CP

SHOW YOUR WORK for full credit!!!

Use the Combined Gas Law (or its component formulas) to answer the following questions:

21) For questions (a → f) circle the answer that describes what would happen in each scenario:

- | | |
|--|---------------------------------|
| a) For Boyle's law if pressure increases, what happens to volume? | (Increase / Decrease / Neither) |
| b) For Boyle's Law, if volume decreases, what happens to pressure? | (Increase / Decrease / Neither) |
| c) For Charles's Law, if temperature increases, what happens to volume? | (Increase / Decrease / Neither) |
| d) For Charles's Law, if volume decreases, what happens to temperature? | (Increase / Decrease / Neither) |
| e) For Gay-Lussac's Law, if pressure increases, what happens to temperature? | (Increase / Decrease / Neither) |
| f) For Gay-Lussac's Law, if temperature decreases, what happens to pressure? | (Increase / Decrease / Neither) |

22) If 22.5 L of nitrogen at 748 mm Hg are compressed to 725 mm Hg at constant temperature. What is the new volume?

23) Calculate the decrease in temperature when 6.00 L at 20.0 °C is compressed to 4.00 L.

24) The gases in a hair spray can are at a temperature of 27 °C and a pressure of 3 atm . If the gases in the can reach a pressure of 9 atm, the can will explode. To what temperature must the gases be raised in order for the can to explode? Assume constant volume.

25) A gas balloon has a volume of 106.0 liters when the temperature is 45.0 °C and the pressure is 740.0 mm of mercury. What will its volume be at 20.0 °C and 780 .0 mm of mercury pressure?

26) What pressure is required to compress 196.0 liters of air at 1.00 atmosphere into a cylinder whose volume is 26.0 liters?

27) A gas occupies 900.0 mL at a temperature of 27.0 °C. What is the volume at 132.0 °C?

28) Maybelline Cousteau's backup oxygen tank reads 900 mmHg while on her boat, where the temperature is 27 °C. When she dives down to the bottom of an unexplored methane lake on a recently-discovered moon of Neptune, the temperature will drop down to -183 °C. What will the pressure in her backup tank be at that temperature?

29) If 10.0 liters of oxygen at STP are heated to 512 °C, what will be the new volume of gas if the pressure is also increased to 2.0 atm?

Gas Laws Review Worksheet Answers

RM Cervero



Gas Laws Review Worksheet Answers:

Gas Laws Review Worksheet Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gas Laws Review Worksheet Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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