

# Gas Laws Practice

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Hour: \_\_\_\_\_

**IMPORTANT:** whenever you use temperature, it must be in degree Kelvin (K), so remember the equation:  $K = ^\circ C + 273$

1. a) convert  $39\ ^\circ C$  to K.                      b) convert  $127\ K$  to  $^\circ C$ .
2. A gas has an initial volume of  $2.75\ L$  at a temperature of  $285\ K$ . If the temperature changes to  $380\ K$ , what is the new volume of the gas if the pressure is unchanged?
3. Gas can often be cooled by compressing it while keeping the pressure constant. If I have  $45.0\ L$  of gas at room temperature ( $22^\circ C$ ) and I compress it so that the final volume is  $0.50\ L$ , what is the final temperature of the gas if the pressure is constant?
4. The volume of a gas is  $2.5\ L$  when the pressure is at standard pressure ( $101.325\ kPa$ ). What is the volume of the gas if the pressure decreases to  $85\ kPa$  and the temperature remains unchanged?
5. A  $5.0\ L$  container of gas experiences a temperature change so that the final temperature is 4 times the initial temperature. What is the size of the container after the temperature change? (Assume constant pressure.)
6. At  $45^\circ C$  the volume of a certain gas is  $27.5\ L$  and the pressure is  $210\ kPa$ . What is the volume of the gas at standard temperature ( $273\ K$ ) and  $310\ kPa$  of pressure?
7. The pressure of a sample of gas was  $97.8\ kPa$  and the volume of the gas was  $3.75\ L$ . If the gas occupied a container with a volume of  $8.00\ L$ , what would the pressure in the container be?
8. Isothermal expansion refers to allowing a gas to expand while keeping the temperature constant. This is one means to simulate a vacuum. If a gas originally at  $97\ kPa$  is allowed to expand from  $0.25\ L$  to  $182\ L$ , what is the pressure of the gas?
9. A gas is initially at a pressure of  $225\ kPa$  and a temperature of  $245\ K$  in a container that is  $4.5\ L$ . If the gas is compressed to a volume of  $2.1\ L$  and the temperature changes to  $275\ K$ , what is the new pressure?

# Skill Practice 35 Gas Laws Practice Answers

**L Cohen**



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Chemfile Skills Practice Experiments Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006     Modern Federal Practice Digest ,1960     **West's Federal Practice Digest 4th** ,1989     **West's Federal Practice Digest** ,2002

New Physics for You Keith Johnson, 2001 for You is a popular series of textbooks ideal for the mixed ability classroom This Support Pack has been fully revised and updated with activities ICT support technician cards additional revision and assessment material including past paper questions and model answers [www.physicsforyou.co.uk](http://www.physicsforyou.co.uk)     *Stem, steam, computational thinking and coding: Evidence-based research and practice in children's development* Stamatis Papadakis, Michail Kalogiannakis, Ali Ibrahim Can Gözümlü, 2023-03-13     *Biomedical Science Practice* Hedley Glencross, Nessar Ahmed, Qiuyu Wang, 2010-10-14 Case studies and other examples enrich the text firmly rooting it in the context of clinical and biomedical practice Book Jacket     Math Review Toolkit for General Chemistry Gary Long, 2006-05-30

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