

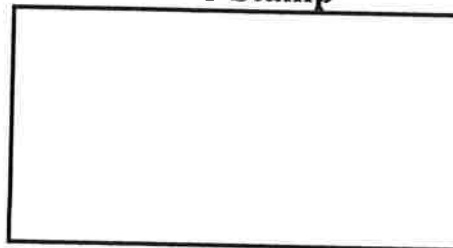
**Titan Learning Center**  
**Science ACT Prep**  
**Week 7**

When the pressure of a gas (measured in torr) is changed, the volume also changes. The pressure and volume also change with temperature and the amount of gas, as shown in the table below.

Mass (in grams)	Pressure (in torr)	Temperature (in Kelvin)	Volume (in L)
36.04	750	25	5
36.04	1650	55	5
36.04	2250	75	5
36.04	300	10	5
36.04	1000	25	3.75
36.04	312.5	25	12
36.04	375	25	10
72.08	1125	25	5
72.08	750	25	10

6. How does the pressure change when the volume changes?  
F. Pressure goes down when volume goes down.  
G. Pressure goes down when volume goes up.  
H. Pressure goes up when volume goes up.  
J. Pressure and volume are not related.
7. How does temperature change when pressure is changed?  
A. When temperature goes down the pressure increases.  
B. When temperature goes up the pressure increases.  
C. When temperature goes down the pressure stays the same.  
D. When temperature goes up the pressure decreases.
8. What would happen to pressure if temperature and volume were doubled?  
F. The pressure would increase.  
G. The pressure would decrease.  
H. It is impossible to tell.  
J. The pressure would stay the same.
9. What is the mass (in grams) of a gas that has a pressure of 1125 torr, a temperature of 25 K, and a volume of 5 L?  
A. 36.04  
B. 144.16  
C. 18.02  
D. 72.08
10. What would be the approximate pressure (in torr) of a gas with a mass of 36.04 grams, a temperature of 40 K, and a volume of 5 L?  
F. 1200  
G. 525  
H. 1950  
J. 700

**TLC Stamp**



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