

## Gases Problems

1. A gas has a pressure of 30 atmospheres before and 60 atmospheres after it is compressed. What is its volume after if its volume before was 2 L?	A. 200 L B. 400L C. 900 L D. 1100 L
2. The temperature before the nuclear reaction is 32 degrees F, and after is 102 degrees F. If the volume after the reaction is 320 L, what was the volume before the reaction?	A. 280L B. 206L C. 305L D. 110L
3. The volume before an exothermic reaction is 0.8 L and after was 68L. What was the temperature before the reaction if the temperature after the reaction was 984 degrees Celsius.	A. 14.8K B. 19K C. 23K D. 36K
4. The pressure is constant in a system at 32mmHg. What will be the volume after an event if the volume before the event is 80mL?	A. 60mL B. 90mL C. 45mL D. 80mL
5. What is the volume before an explosion if the volume after is 40L and the temperatures before and after are 273K and 296K, respectively?	A. 62L B. 37L C. 6.57L D. 12mL
6. Find the temperature if the temperature before a decomposition reaction is 91K when the volume before is 62L and after is 61L.	A. 142K B. 90K C. 300K D. 48.6K
7. If the temperature before a single replacement reaction is 32 degrees C and after is 64 degrees C, what is the volume after when the volume before was 92mL?	A. 0.10L B. 100L C. 32L D. 4.08L
8. If the volume before a bomb exploded in a canister of water was 80L and after was 100L, what was the temperature before the event if after the event the temperature was 60 degrees F?	A. 260K B. 240K C. 231K D. 210K
9. When the pressure increases from 25 atmospheres to 35 atmospheres in a steam turbine container the volume of the steam container changes from 0.6L to what?	A. 19.3L B. 20.5L C. 19L D. 14.6L
10. The temperature before a reaction is 80 degrees C and 40 degrees C after. What was the volume before if the volume after the reaction was 9.8L?	A. 11.1L B. 12L C. 13L D. 14L