PTRT 1317 Gas Fundamentals

Answer Key

|  |  |  |
| --- | --- | --- |
| 1. Possess 2. More 3. Molecules, sides 4. More 5. More 6. Kinetic 7. Faster, molecules 8. Do 9. Over the whole area 10. 100 11. Pounds per square inch 12. Force, area 13. Increasing, decreasing 14. More 15. More 16. Heavier 17. Fast, weighs 18. Molecules 19. Molecules, faster 20. Increase 21. Temperature, pressure 22. Causes 23. Energy 24. Faster 25. Temperature, pressure 26. Stays the same 27. Expand 28. Increase 29. Increases 30. Force, area 31. Does not 32. Volume, pressure 33. Less 34. Less 35. Greater 36. More 37. Is not 38. Temperature, pressure 39. Low, high 40. Heavier 41. Temperature, pressure 42. Energy 43. Faster | 1. Same 2. The same 3. Volume, temperature, pressure 4. Same 5. Force 6. Pressure 7. Pounds 8. Decreases 9. Higher 10. Increase, atmospheric pressure 11. Altitude 12. 14.7 13. 15 14. Water, atmosphere 15. 35 16. Do not include 17. PSIG 18. Gage, atmosphere 19. PSIA 20. Does not include 21. Gage, plus 22. Absolute 23. PSIA 24. Fahrenheit 25. Should 26. 460 27. 500 28. 520 29. 460 30. 560 31. Gage, atmospheric 32. PSIG, PSIA 33. May 34. Can 35. Does not 36. Is not 37. 460 38. Rankine 39. Double 40. Double 41. Increases | 1. Decreases 2. An opposite 3. Inversely, absolute pressure 4. Pressure-volume 5. 15 6. 15 7. 15 8. Can 9. Does not hold true 10. Cannot 11. Expands 12. Increases 13. Increases 14. The same 15. Directly, temperature 16. Temperature-volume 17. 2 18. ½ 19. 520 20. Can 21. Does not 22. Cannot 23. Inversely, absolute pressure 24. 60 25. Directly, Temperature 26. 14.7 27. Pressure 28. The same 29. Price 30. Different 31. The same 32. 14.7, 60 33. Almost never 34. Standard 35. Someone loses money 36. Boyle’s 37. Charles’ 38. Pressure, temperature 39. Boyle’s, Charles’ 40. Temperature, pressure 41. Pressure, volume, temp |
| 1. Pressure, temperature, standard 2. Standard 3. Measured 4. P1 and T1 5. P2 and T2 6. Standard 7. 60, 14.7 8. Change 9. 460 10. 520 11. 460 12. 14.7 13. 280 14. 280 15. 2 16. 500 17. 14.73 18. 520 19. Standard 20. 39.54 21. Quantity 22. standard 23. 14.73, 60 24. Charles’, Boyle’s 25. Pressure, temperature 26. general 27. pressure 28. volume 29. temperature 30. standard 31. standard cubic feet 32. adding 33. gage, atmospheric 34. absolute 35. more 36. 0.077 37. 0.08 38. About the same 39. Twice 40. Half 41. 1 42. ½ 43. 0.08 44. 0.16 | 1. Twice 2. 0.04 3. Higher 4. Density 5. Expand 6. Less 7. Decrease 8. Pressure, temperature 9. Cause 10. More 11. Lower 12. Air 13. 0.5 14. Less 15. Less 16. More dense 17. More, less 18. More 19. Sinks 20. Less 21. Floats 22. Less 23. Lower 24. Raise 25. Composition 26. Temperature and pressure 27. Always the same 28. Close together 29. Close together 30. Increased 31. Differently 32. Only approximate 33. Greater than 34. Requires 35. Attraction 36. Compressibility 37. Z 38. Pressures 39. Found in published tables 40. Gage, atmospheric 41. Weather 42. Height 43. 14.73 44. Is always the same | 1. 460 2. 60, 520 3. Pressure, temperature 4. The same 5. Pressure, temperature 6. Standard 7. Z 8. Charles’, Boyle’s |