PTRT 1317 Gas Fundamentals

Answer Key

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| 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
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| 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
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