

Answers to Practice Problems in pages 446 and 447

30. $P_{total} = P_A + P_B + P_C$
31. 101 325 newtons
32. 13.3 kPa
33. 290 kPa
34. 92.5 kPa
35. 113 mL
36. 175 kPa
37. 1100 mL
38. 4.00×10^8 L
39. 66.3 mL
40. 7.4×10^7 L
41. 93.3 mL
42. 2.18 L
43. 0.570 L
44. 37°C
45. 3.1 L
46. 63°C
47. 152 kPa
48. 0.360 atm
49. 26 kPa
50. 43 psi
51. 8.4 atm
52. 75°C
53. 0.781 mol
54. 0.0486 mol
55. 266 kPa
56. 2.5 mol
57. 4.0×10^3 L
58. 62.4 L
59. $M = 64$ g/mol. It is SO_2 .
60. $M = 128$ g/mol. It is HI.
61. 1.91×10^3 m/s
62. 240 m/s
63. 10.4 L
64. 0.484 g Mg
65. 3.56×10^{-2} g C_8H_{18}
66. a. CO
 - b. 37.5 mL CO
 - c. 412.5 mL CH_3OH