Answers to Selected Worksheet Questions

BOYLE'S LAW AND CHARLES' LAW WORKSHEET

1. 2.60 L
2. 33.1 mL
3. .603 atm
4. 3040 L
5. 67.7 mL
6. 29.0 mL
7. -30.0ºC

IDEAL GAS LAW WORKSHEET

1. .769 moles
2. .769 moles – type of gas does not matter if problem does not have g, mass, density or molar mass
3. 1.34 g
4. .976 g
5. 1.19 L
6. see each part
   a. 2.51 mol
   b. 100. g
7. 446 K or 173ºC
8. See Gas Review Notes
9. See Gas Review Notes
10. a. 2 mole and 44.8 L
11. moles to grams, and then PV=nRT
12. n = PV/(RT)
13. P = nRT/V
14. mole fractions are .2, .4, .4. Partial Pressures are 18 kPa, 36 kPa, and 36 kPa

Gases Review Worksheet (Selected Answers Only)

Show all work on a separate sheet stapled behind this one.

1. 1.42 g/L
2. 1.03 g/L
3. 31.2 L/mol
4. 2.23 mol

Gases Pre-Exam Worksheet

Show all work, even on multiple choice questions.

1. **(B)16 g of oxygen**
2. **(C) the molar mass is 89.6 g·mol^{-1}**
3. **(e) 1 L of CO_2 at STP.**
4. **(B) SO_2**
5. **444 mm Hg**
6. **(A) 950 mL x $\frac{720\ mmHg}{760\ mmHg}$**
7. **1.69 g** _____.
8. **(A) 1.25 atm**