

### AP WORKSHEET 03DEF: ANSWERS

1. Boyle's.  $P_1 V_1 = P_2 V_2 = \text{a constant}$  (at constant T and n)
2. 1.08 atm
3. 12.9 L
4. Charles'.  $\frac{V_1}{T_1} = \frac{V_2}{T_2} = \text{a constant}$  (at constant P and n)
5. 1.15 L
6. 17.25 L
7. Avogadro's.  $\frac{V_1}{n_1} = \frac{V_2}{n_2} = \text{a constant}$  (at constant T and P)
8. 0.470 g
9. Sodium
10. 0.365 L

