

Answer to Critical Questions 1		
copy 1:	2.1 g mL ⁻¹	copy 2: 2.13 g *
copy 2:	8.370 mL	copy 3: 3.75 g *
copy 3:	35.55 mL	copy 4: 642 g *
copy 4:	5.52 g mL ⁻¹	copy 5: 715 g *
copy 5:	29.8 mL	copy 6 43.9 g *
copy 6:	1.61 g mL ⁻¹	copy 7: 211 g *
copy 7:	3.26 g mL ⁻¹	copy 8: 344 g *
copy 8:	8.359 mL	Answers to critical item questions 5
		1. 1.71 M
		2. 0.715 M
Answer to Critical Questions 2		3. 1.67 M
copy 1:	5.99×10^3 g	4. 1.34 M
copy 2:	43.2 g	5. 1.26 M
copy 3:	3.93×10^3 g	6. 0.2353 M
copy 4:	6.12×10^3 g	Answers to critical item questions 6
copy 5:	0.0543 mol	1. 0.10 M
copy 6:	0.644 mol	2. 1.33 M
copy 7:	5.43 mol	3. 13.6 mL
copy 8:	5.94 mol	4. 82.5 mL
Answer to Critical Questions 3		5. 20 mL
copy 1:	1.35×10^{26}	6. 0.0750 M
copy 2:	7.53×10^{25}	Answers to critical item questions 7
copy 3:	6.80×10^{24}	
copy 4:	3.91×10^{26}	1. 0.1490 M
copy 5:	3.10×10^{24}	2. 0.07893 M
Answer to Critical Questions 4		
copy 1:	31.1 g *	

3. 0.1341 M
4. 0.1052 M
5. 0.3157 M
6. 0.04965 M

Answers to critical item questions 8

1. 25 atm
2. 23.5 L
3. 304.7 K
4. 0.224 mol
5. 5.71 atm
6. 3.92 L
7. 381 K
8. 0.233 mol

Answers to critical item questions 9

1. 10 atm
2. 1.0 gal
3. 217°C
4. 27.8 mol
5. 12.5 atm
6. 1.67 gal
7. 686 K (413°C)
8. 136 mol

Answers to critical item questions #10

1. 22 atm
2. 15 L
3. 78 L
4. 46atm
5. 12.5 L

6. 4.33 atm
7. 54 L
8. 54 atm

Answers to Critical Question 11

- A 0.161
B 300
C 560
D 0.560
E 103
F 1056
G 0.795
H 487
I 519
J 0.912

- K 246
L 1864

Answers to Critical Question 12

1 23.10 (0.03039)

2 21.06 (0.02771)

3 22.99 (0.03026)

4 22.61 (0.02974)

5 22.56 (0.02969)

6 22.41 (0.02950)

7 22.71 (0.02988)

8 22.65 (0.02980)

9 23.31 (0.03068)

10 23.00 (0.03026)

11 21.28 (0.02800)

12 23.02 (0.03029)