

Chemistry Assignment Sheet

For each problem, show the answer is correct.

Assignments are to adhere to criteria-for-credit.

Do your best and work on each assignment for about 20 to 30 minutes.

Each assignment is to prepare you for the following day's activities, so keep yourself safe by completing as much correctly as you can.

Assignment #	Description by Objective	Page Numbers	Problems	Answers
1	Mole-Particle Conversions	346	#89 –a #91 – c, d	(89a) 7.48 mol Zn (91c) 9.55 mol Al (91d) 6.23 mol CO ₂
	Mole-Mass Conversions	347	#98 – b	(98b) 2.34 g Cr
2	Gas Laws	448	#25	(25) -138°C
	Percent Composition	349	#139 #141	(139) 32.37% Na, 22.58% S, 45.05% O (141) 3.08% H, 31.61%P, 65.31% O
	Particle-Mass Conversions	347	#103	(103) 52 g/mol Cr
3	Limiting Reactants	380	#78	(78) 13.6 g Na in Excess
	Percent Yield Stoichiometry	382 379	#81 #94 #74	(81) 60.0 g C ₆ H ₁₂ O ₆ (94) 98.2% Ag ₂ CrO ₄ (74) 30.0 mol CO ₂
4	Determine molar mass	347	#112 – a, b	(112a) 403 g KMnO ₄ (112b) 169.9 g/mol
	Gas Laws	427	#9, 10, 11	(9) 214°C (10) 1.96 atm (11) -21°C
	Mass-mole Conversion	348	#77	(77) 9.355 mol S
5	Volume-Volume	443	#15, 16	(15) 0,541 mol H ₂ O (16) 15.6 L O ₂
	Stoichiometry	378, 379	#54,55, 65	(54) 88.6 g Cl ₂ (55) 6.25 mol O ₂ (65) 84.48% yield of ZnI ₂
	Gas Laws	425	#5	(5) 2.58 L