

Student	m_Initial_I2 (g)	m_initial_Zn (g)	m_excess_Zn (g)	mass of unreacted zinc (g)	mass of reacted zinc (g)
Student 1	1.103	2.003	1.689	1.689	0.314
student 2	0.950	1.075	0.871	0.871	0.204
Student 3	1.062	0.973	0.699	0.699	0.274
Student 4	1.204	1.999	1.630	1.630	0.369
Student 5	1.007	2.001	1.705	1.705	0.296
Student 6	1.035	1.073	0.786	0.786	0.287
Student 7	1.071	1.020	0.739	0.739	0.281
Student 8	1.118	1.022	0.730	0.730	0.292
Student 9	1.272	1.033	0.773	0.773	0.260
Student 10	1.005	1.001	0.736	0.736	0.265
Student 11	0.892	1.118	0.873	0.873	0.245
Student 12	0.974	1.000	0.741	0.741	0.259
Student 13	0.715	2.075	1.867	1.867	0.208
Student 14	0.997	1.396	1.119	1.119	0.277
Student 15	1.360	1.470	1.221	1.221	0.249
Student 16	1.152	0.997	0.700	0.700	0.297
Student 17	0.490	2.007	1.860	1.860	0.147
Student 18	1.241	2.026	1.665	1.665	0.361

My data	1.005	1.001	0.736	0.736	0.265
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Sample Calcation:
mass of unreacted zinc = mass excess zince
mass of reacted zinc= C2-D2
Moles of reacted I atoms=B2/253.80894
Moles of reacted Zn atoms=F2/65.38
Mole Ratio=g2/h2
Percent Error=(i2-1/1)*100
average of mole ratio = average(j3:j20)

Moles of reacted I atoms (m)	Moles of reacted Zn atoms (m)	Mole ratio (m)	empirical formula	percent error (%)
0.00435	0.0048	0.9049	I ₂ Zn	9.513
0.00374	0.0031	1.1996	I ₂ Zn	19.959
0.00418	0.0042	0.9984	I ₂ Zn	0.158
0.00474	0.0056	0.8405	I ₂ Zn	15.950
0.00397	0.0045	0.8763	I ₂ Zn	12.365
0.00408	0.0044	0.9290	I ₂ Zn	7.104
0.00422	0.0043	0.9818	I ₂ Zn	1.820
0.00440	0.0045	0.9863	I ₂ Zn	1.373
0.00501	0.0040	1.2602	I ₂ Zn	26.024
0.00396	0.0041	0.9769	I₂Zn	2.308
0.00351	0.0037	0.9379	I ₂ Zn	6.214
0.00384	0.0040	0.9687	I ₂ Zn	3.128
0.00282	0.0032	0.8855	I ₂ Zn	11.452
0.00393	0.0042	0.9272	I ₂ Zn	7.284
0.00536	0.0038	1.4069	I ₂ Zn	40.695
0.00454	0.0045	0.9992	I ₂ Zn	0.084
0.00193	0.0022	0.8587	I ₂ Zn	14.135
0.00489	0.0055	0.8855	I ₂ Zn	11.447
			average=	10.480

<i>Bin</i>	<i>Frequency</i>
0.87	2
0.90	3
0.95	4
1.00	6
1.10	0
1.20	1
1.40	1
More	1

0.00396	0.00405	0.97692	I₂Zn	2.308
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