Excel Lab Exercise – Oly Nzekwe

Box 1

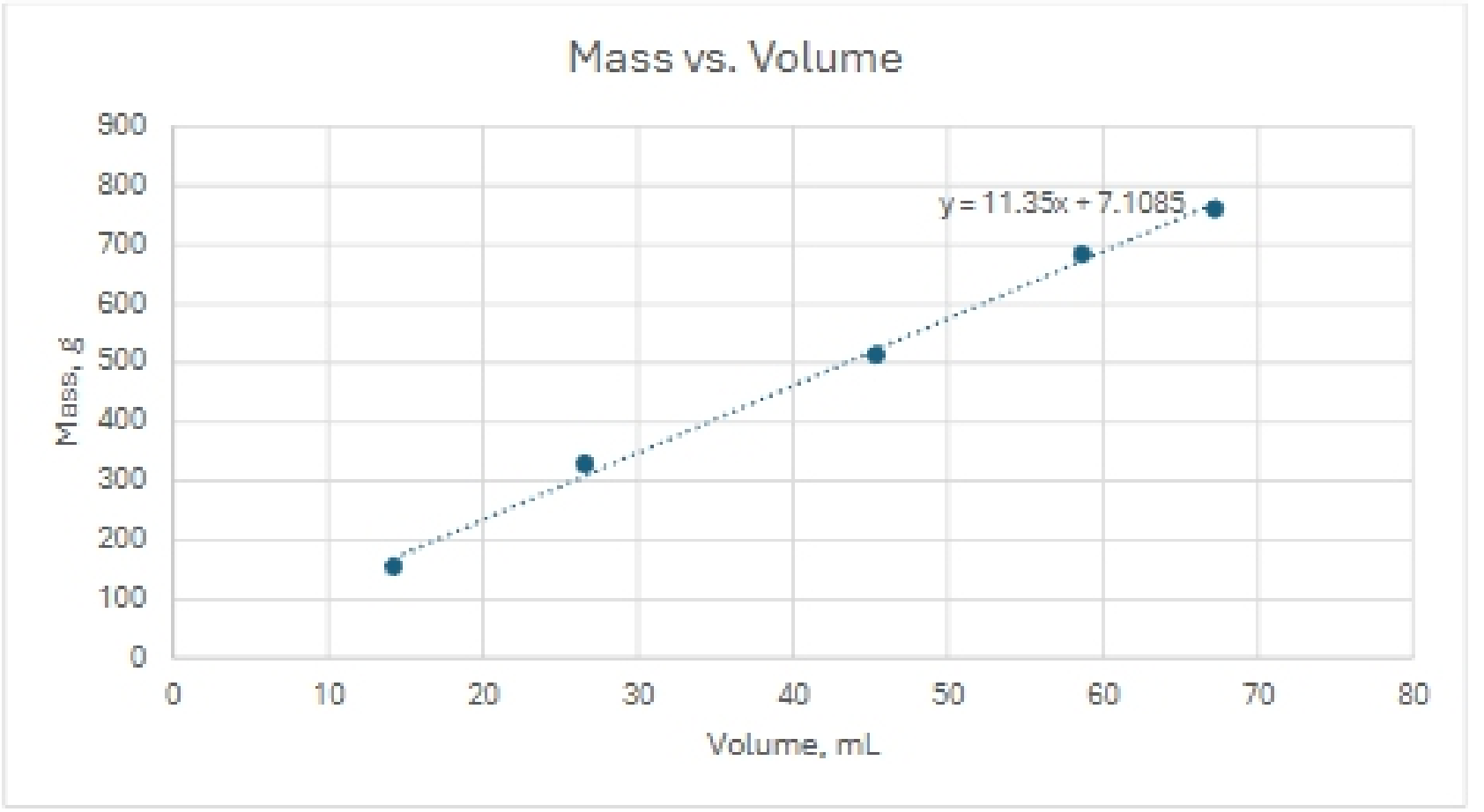
Mass, Ounces	Volume, Cubic Inches	Mass, Grams	Volume, mL
5.47	0.8689	155.0893	14.24127
11.598	1.622	328.8347	26.58458
18.114	2.768	513.5809	45.36752
24.137	3.58	684.3493	58.6762
26.843	4.102	761.0717	67.23178

Box 2

Mass, Ounces	Volume, Cubic Inches	Mass, Grams	Volume, mL	Density, g/mL
5.47	0.8689	155.0893	14.24127	10.89013
11.598	1.622	328.8347	26.58458	12.36938
18.114	2.768	513.5809	45.36752	11.32045
24.137	3.58	684.3493	58.6762	11.66315
26.843	4.102	761.0717	67.23178	11.32012

Average-11.51265

StandardDev-0.551853



Calculations

y=11.35x+7.1085

y=11.35(52.0mL)+7.1085

y=590.2+7.1085

y=597.3085

An ingot with a volume of 52.0 mL would have a mass of 597.3085 grams.