Graphing

Name: _

For each of the following sets of data, graph the data using an appropriate scale. For the each graph, title the graph, label the axes, and plot the data. For line graphs, draw a best-fit line and determine the slope. Answer the questions about the graph.

Mass (g)	Volume (mL)
1.53	0.5
45.65	16.9
23.52	8.9
52.90	19.1
6.34	2.7
39.58	14.2

a) Slope of best-fit line

b) What is the y-intercept of the graph? What should it be and why?

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2) Densities of Metals (Bar)

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Metal	Denisty (g/mL)
Steel	7.8
Bronze	7.4
Mercury	13.5
Lead	11.3
Copper	9.0
Gold	19.8

a) How does a bar graph differ from a line graph?

b) How were you able to determine the scale of the y-axis?

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Volume (cm ³)	Temperature (K)
4665	400
4082	350
3487	300
2897	250
2339	200
1765	150
1156	100
583	50

3) Changes in volume of a balloon as temperature decreases (Line)

a) Slope of best-fit line

b) what is this / interespt of the graph.	b)	What	is	the	y-intercept	of	the	graph?
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4) Percentage of world energy sources (Circle)

Fuel	Percent (%)
Biofuels	0.3
Biomass	4
Coal	25
Geothermal	0.3
Hydroelectric	3
Natural Gas	23
Nuclear	6
Oil	37
Solar	1
Wind	0.4

a) How does this graph quickly show the differences in sources?



b) 85% of all our fuel comes from what classification of fuel?

c) What total percentage does renewable resources account for the total energy sources?