

Making Bar and Line Graphs

Name _____ Date _____

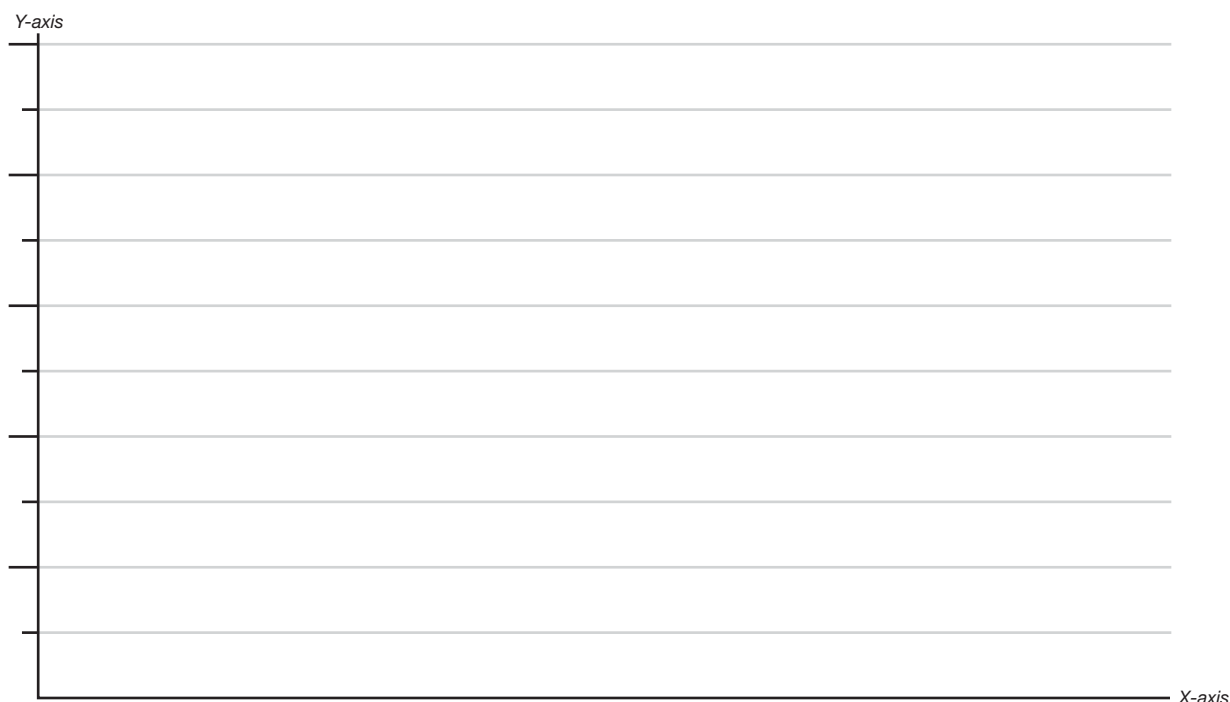
Part I. Making a Bar Graph

Directions: A **bar graph** displays data visually and helps you compare data. Use the data from the table to make your own bar graph below. Label the **independent variable** on the X-axis, and choose an appropriate number scale for the **dependent variable** on the Y-axis. Add a **key** if necessary. Finally, give your graph a title.

Data Table for Part I

Student	Lung Capacity (mL)
Eric	500 mL
Mia	300 mL
Rudy	400 mL
Tess	450 mL

Title: _____



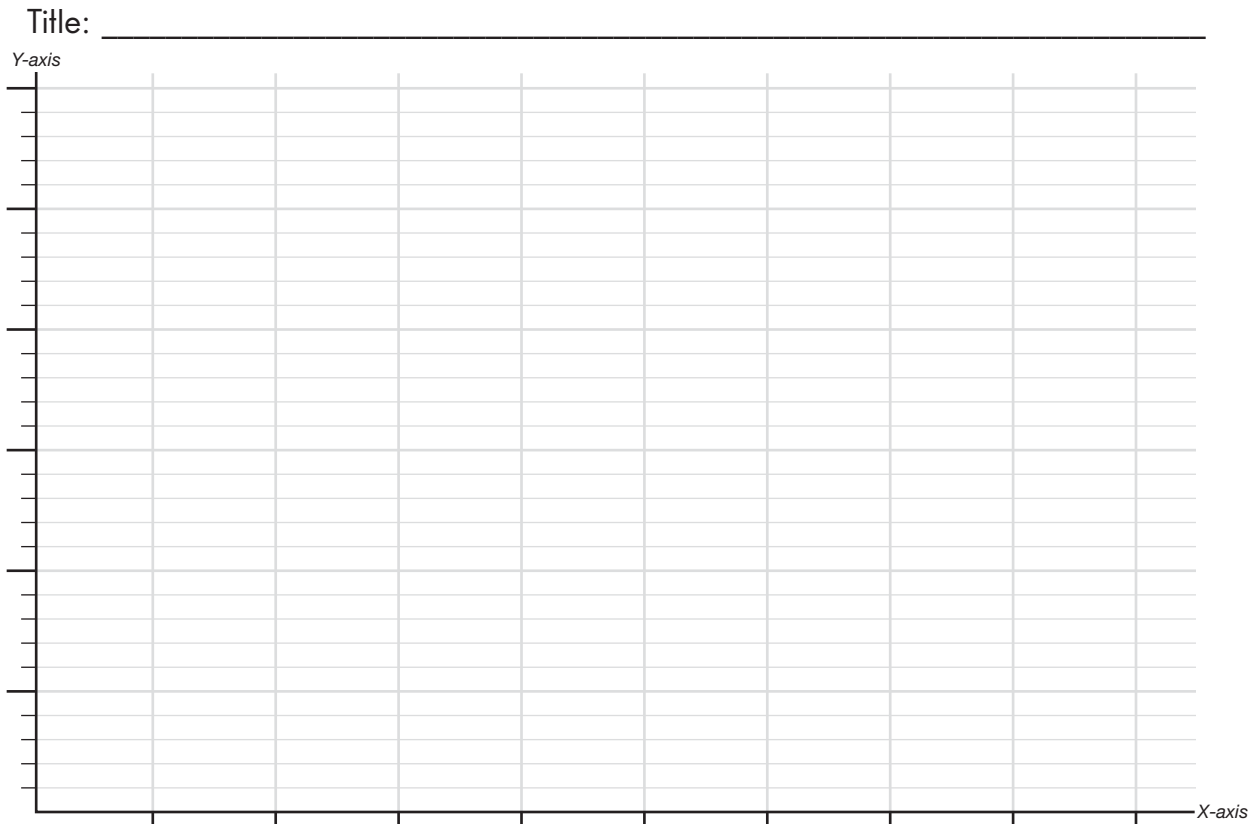
Name _____ Date _____

Part II. Making a Line Graph

Directions: A **line graph** displays data visually and helps you identify changes over time. Use the data from the table to make your own line graph below. Label the *independent variable* on the X-axis, and choose an appropriate number scale for the *dependent variable* on the Y-axis. Add a key if necessary. Finally, give your graph a title.

Data Table for Part II

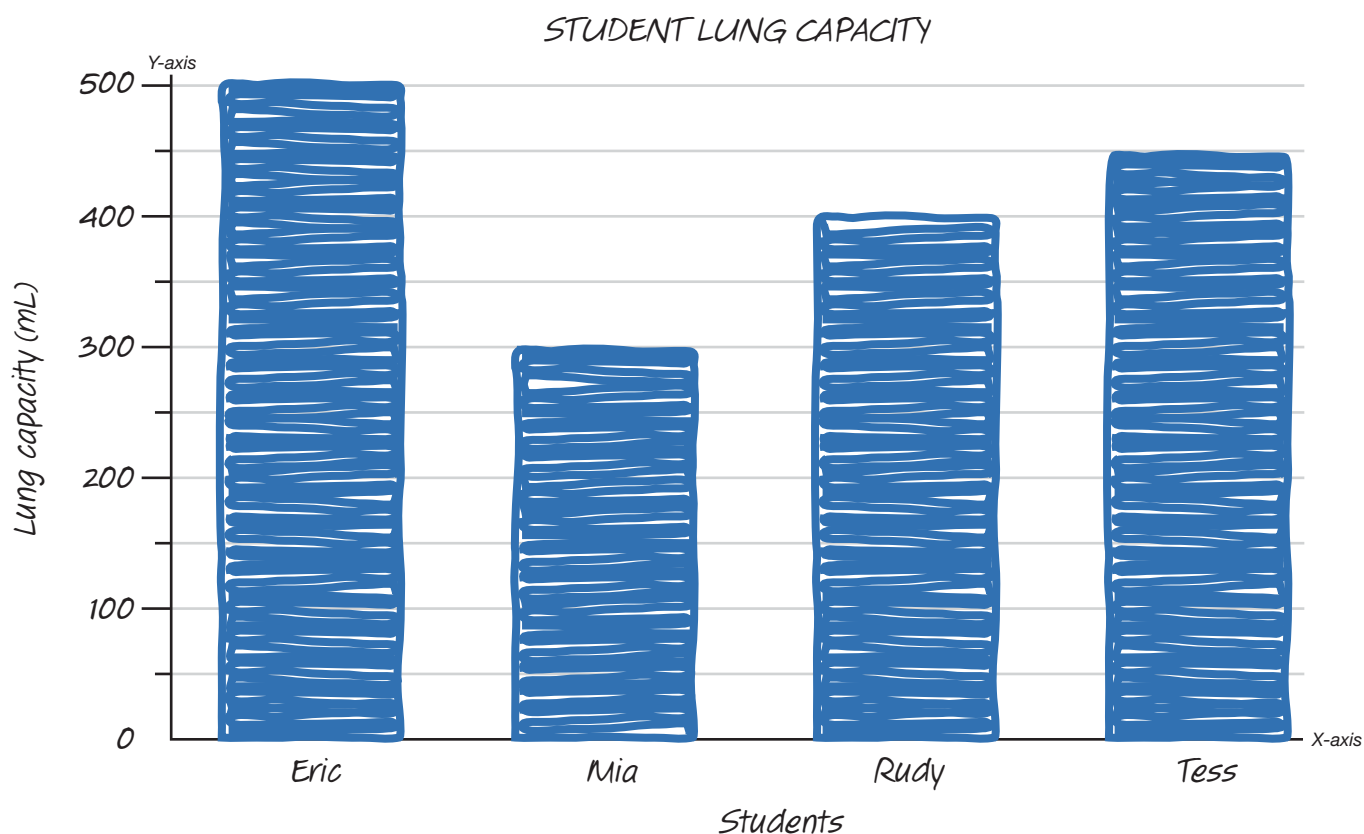
Time of day	8:00 a.m.	9:00 a.m.	10:00 a.m.	11:00 a.m.	12:00 p.m.	1:00 p.m.	2:00 p.m.	3:00 p.m.	4:00 p.m.
Length of flagpole's shadow (ft.)	40	32	20	8	2	10	18	26	32
Length of tree's shadow (ft.)	60	48	30	12	3	15	27	39	48



Making Bar and Line Graphs Answer Sheet

Part I. Making a Bar Graph

Student bar graphs will vary but should accurately reflect the data provided. The X-axis will likely be labeled “Students” and should list the four students’ names. The Y-axis will likely be labeled “Lung Capacity (mL)” and should ideally be numbered in increments of 50 and/or 100 in order to include the range of data from the table. Students should also give their graph an appropriate title, but a key should not be necessary. A sample bar graph is provided:



Name _____ Date _____

Part II. Making a Line Graph

Student line graphs will vary but should accurately reflect the data provided. The X-axis will likely be labeled "Time of day" and should list the nine hourly increments. The Y-axis will likely be labeled "Shadow length (ft.)" and should ideally be numbered in increments of 2 and 10 in order to include the range of data from the table. Students should also give their graph an appropriate title as well as a key that distinguishes the data points and line for the flagpole from those of the tree. A sample line graph is provided:

