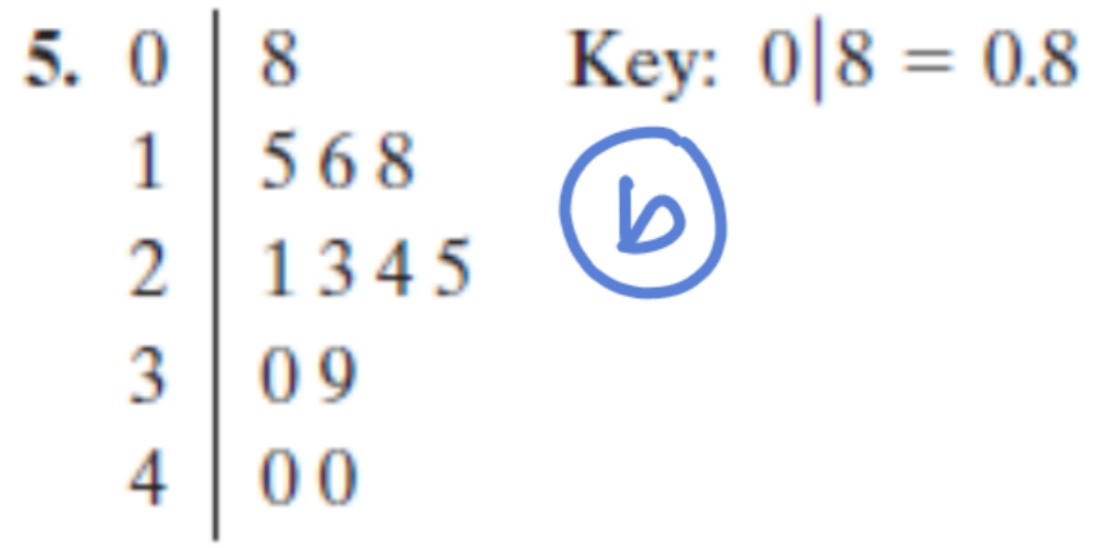
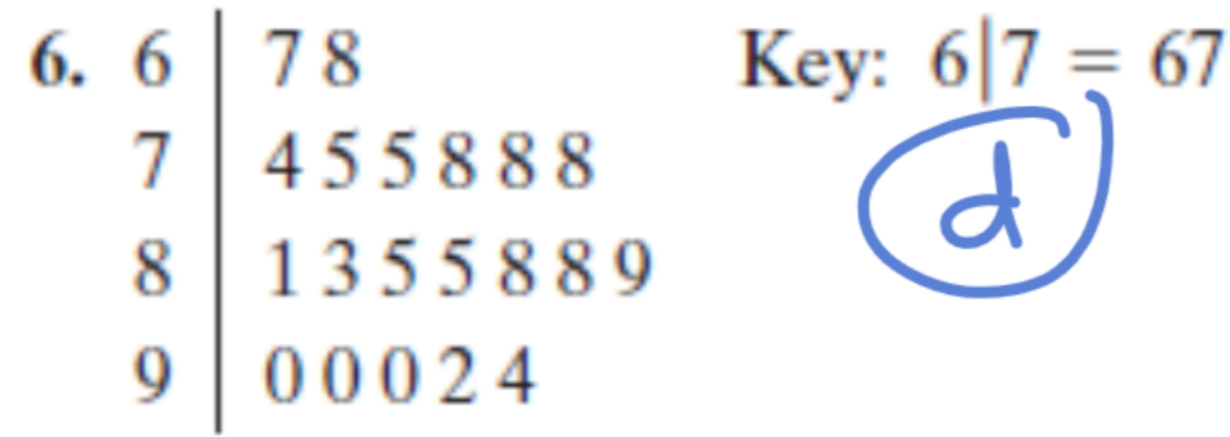


Putting Graphs in Context In Exercises 5–8, match the plot with the description of the sample.

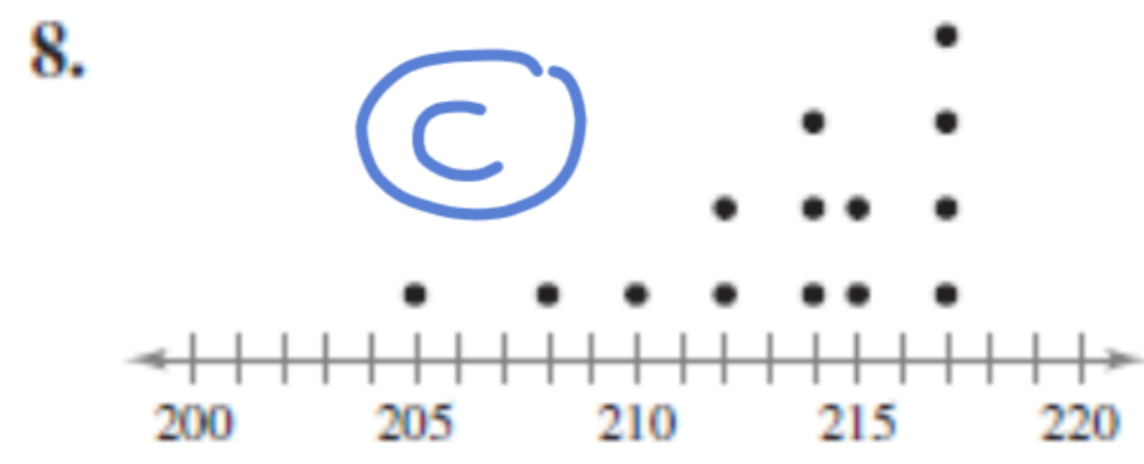
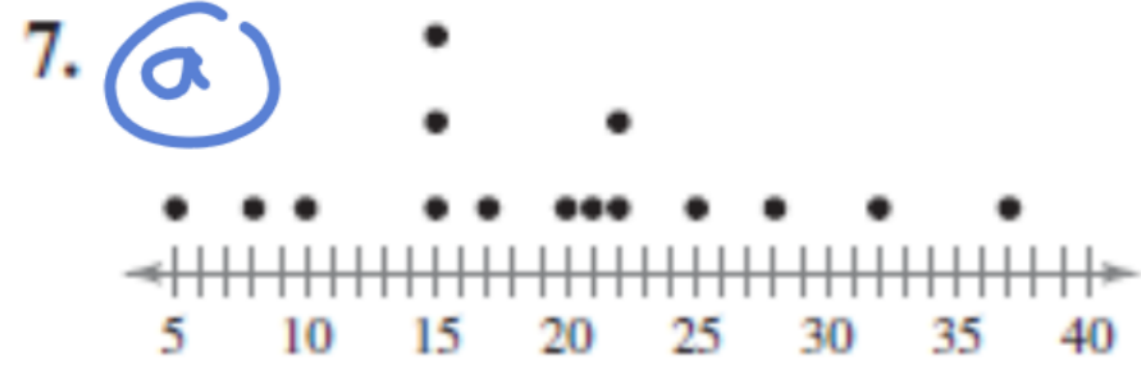
Putting Graphs in Context In Exercises 5–8, match the plot with the description of the sample.



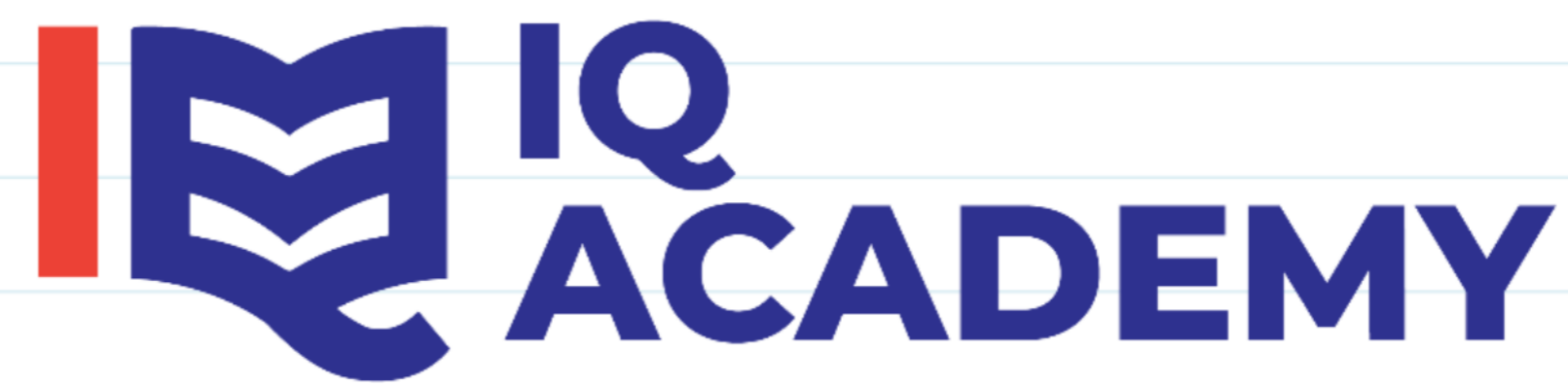
(b)



(d)



- (a) Time (in minutes) it takes a sample of employees to drive to work
- (b) Grade point averages of a sample of students with finance majors
- (c) Top speeds (in miles per hour) of a sample of high-performance sports cars
- (d) Ages (in years) of a sample of residents of a retirement home



Graphical Analysis In Exercises 9–12, use the stem-and-leaf plot or dot plot to list the actual data entries. What is the maximum data entry? What is the minimum data entry?

10. Key: $12|9 = 12.9$

12	
12	9
13	3
13	6 7 7
14	1 1 1 1 3 4 4
14	6 9 9
15	0 0 0 1 2 4
15	6 7 8 8 8 9
16	1
16	6 7

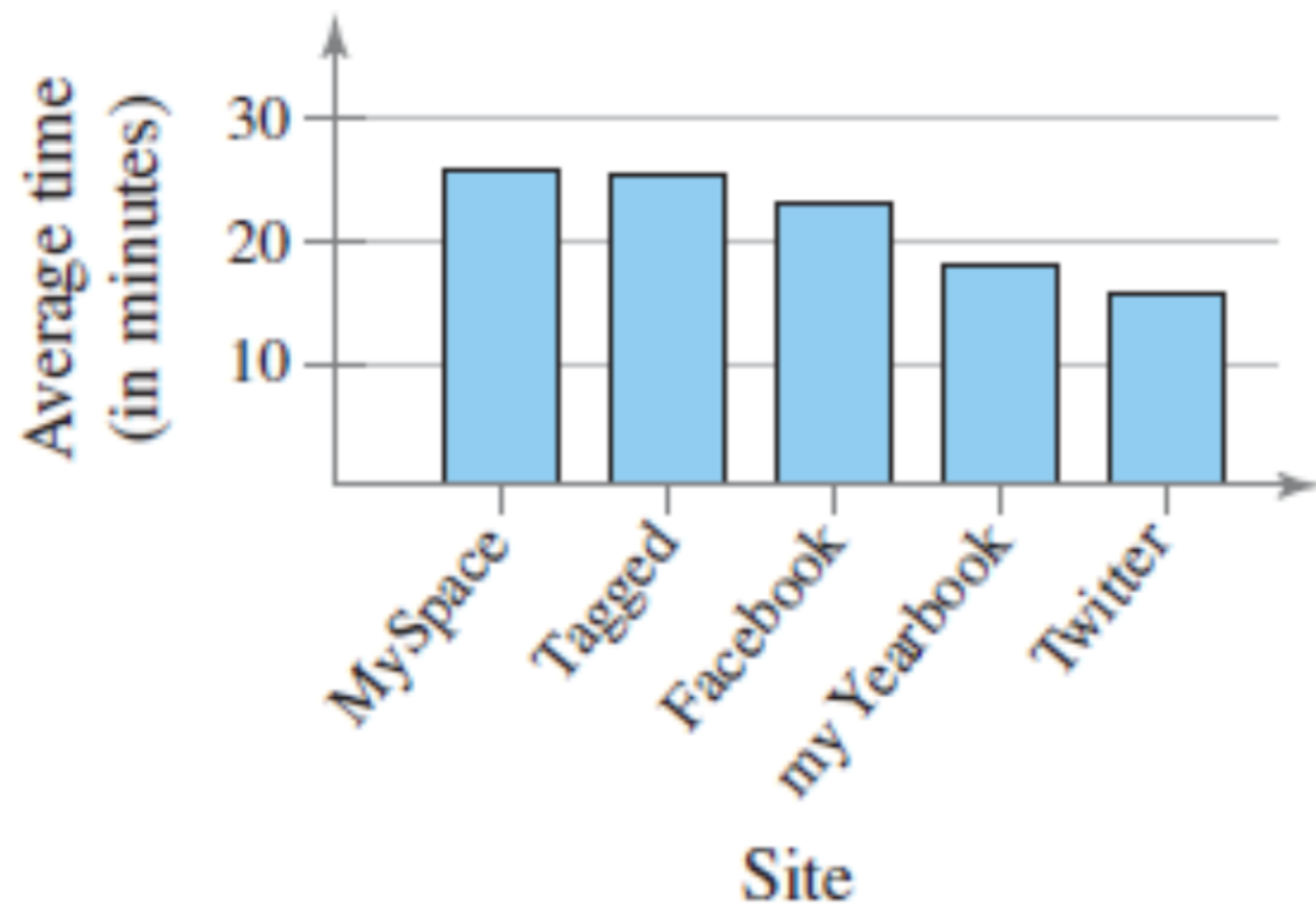
12.0	12.9	13.3	13.6
13.7	13.7	14.1	14.1
14.1	14.1	14.3	14.4
14.4	14.6	14.9	14.9
15.0	15.0	15.0	15.1
15.2	15.4	15.6	15.7
15.8	15.8	15.8	15.9
16.1	16.6	16.7	

* Minimum entry :- 12.0

* Maximum " " :- 16.7

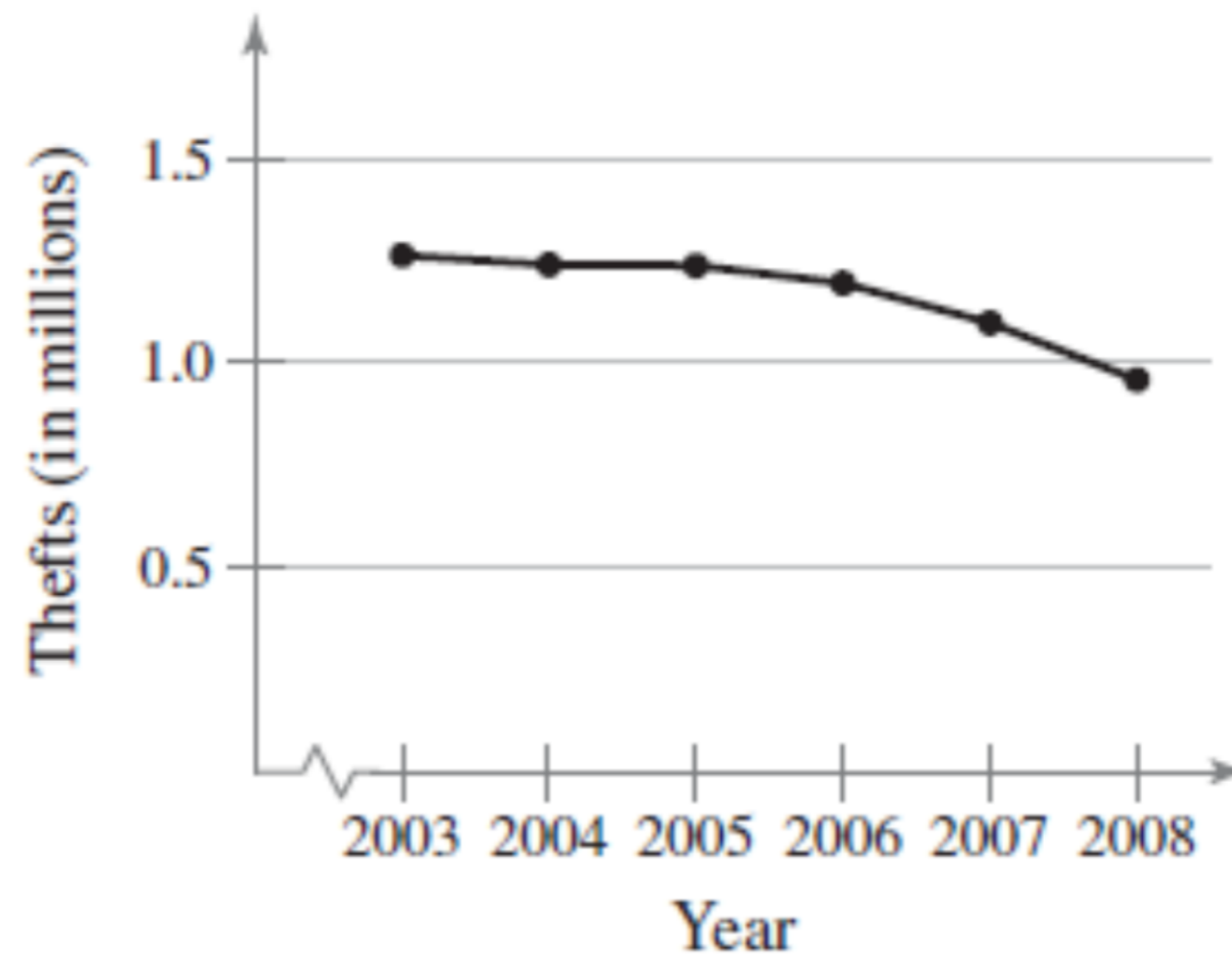
Graphical Analysis In Exercises 13–16, give three conclusions that can be drawn from the graph.

13. Average Time Spent on Top 5 Social Networking Sites



(Source: Experian Hitwise)

14. Motor Vehicle Thefts in U.S.



(Source: Federal Bureau of Investigation)

13

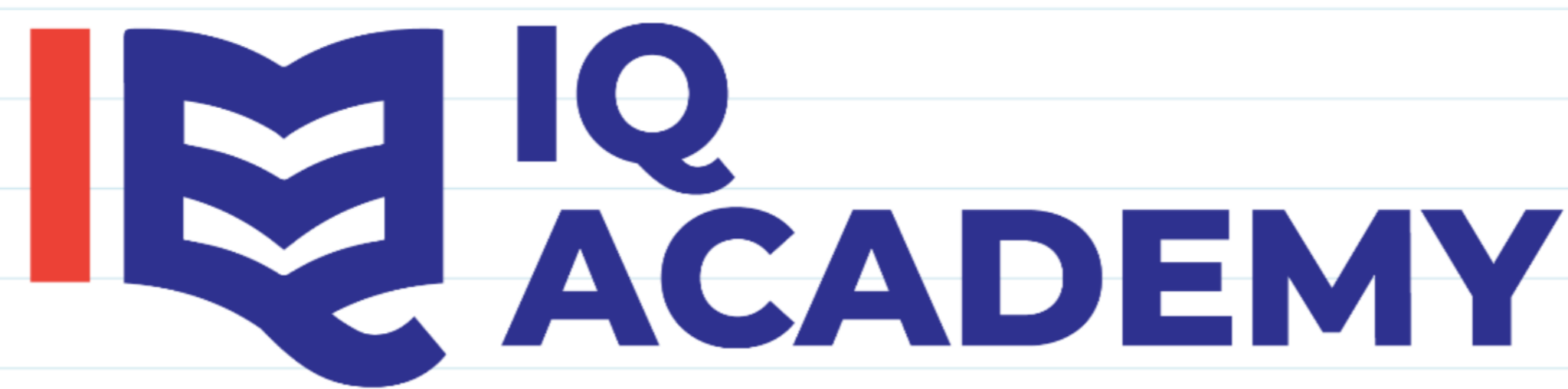
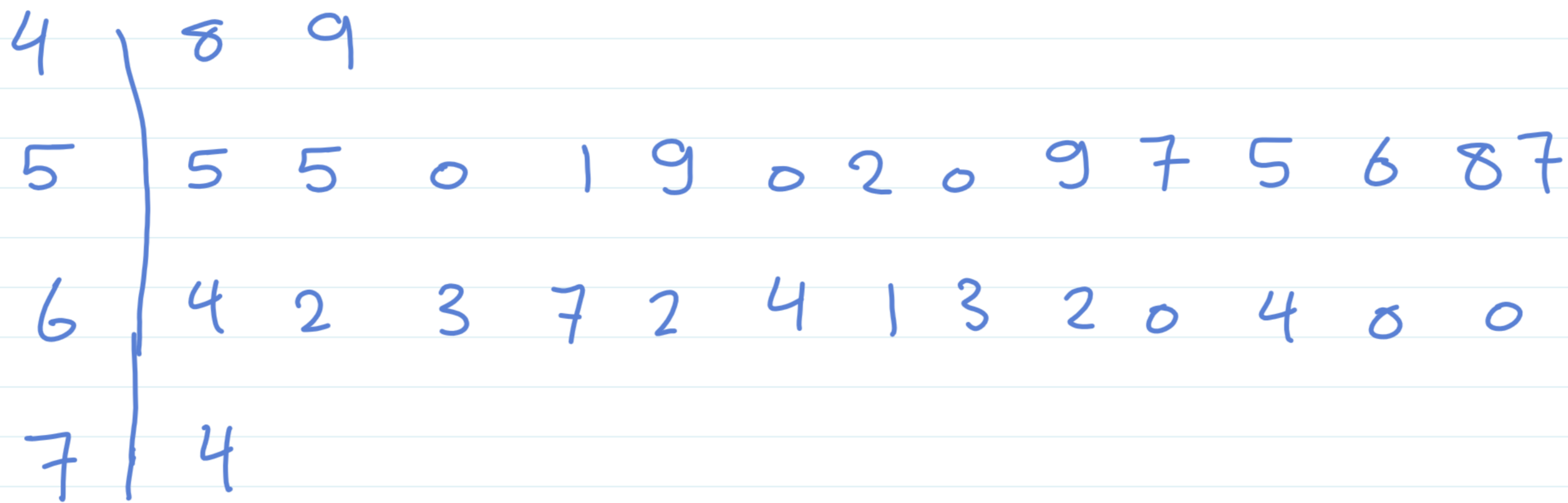
- 1- Maximum time spent on My space.
- 2- ^{least} minimum time spent on twitter.
- 3- Time spent on My space and Tagged is so close

- 1- Most Motor vehicle thefts was in 2003
- 2- least Motor vehicle thefts was in 2008
- 3- Vehicle thefts decreased over time.

18. **Highest Paid CEOs** Use a stem-and-leaf plot that has two rows for each stem to display the data. The data represent the ages of the top 30 highest paid CEOs. (Source: Forbes)

64 74 55 55 62 63 50 67 51 59 50
52 50 59 62 64 57 61 49 63 62 60
55 56 48 58 64 60 60 57

Key: 4 | 8 = 48

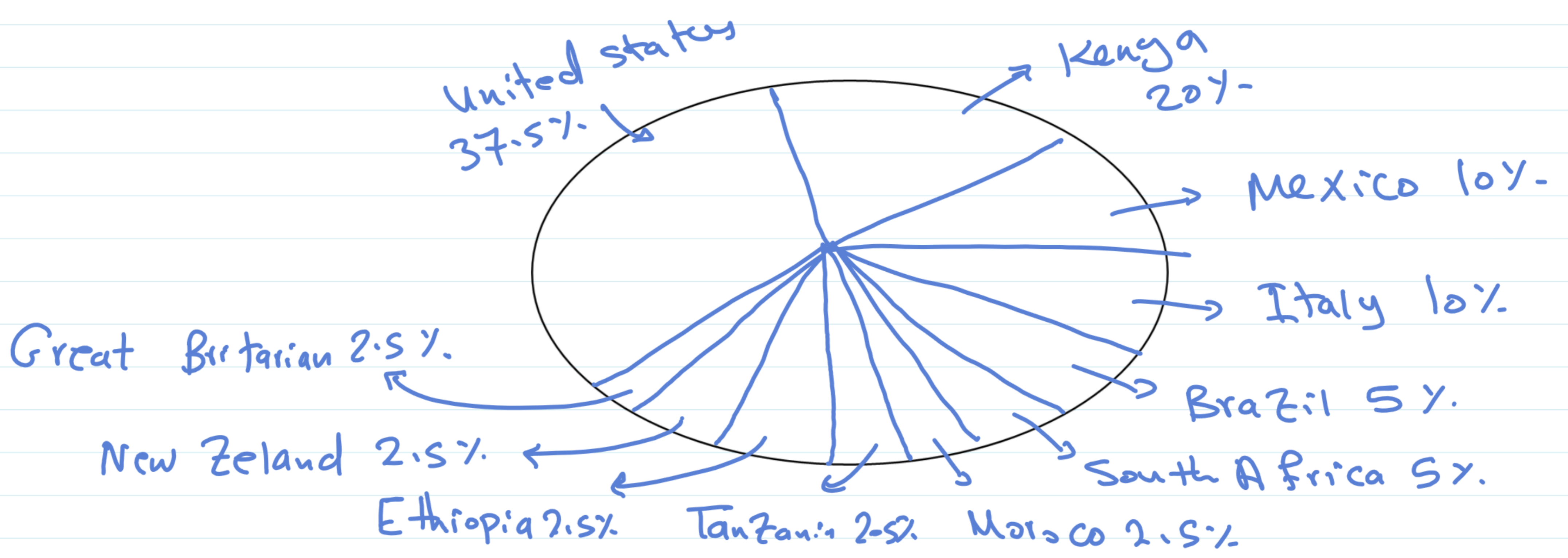


23. **New York City Marathon** Use a pie chart to display the data. The data represent the number of men's New York City Marathon winners from each country through 2009. (Source: *New York Road Runners*)



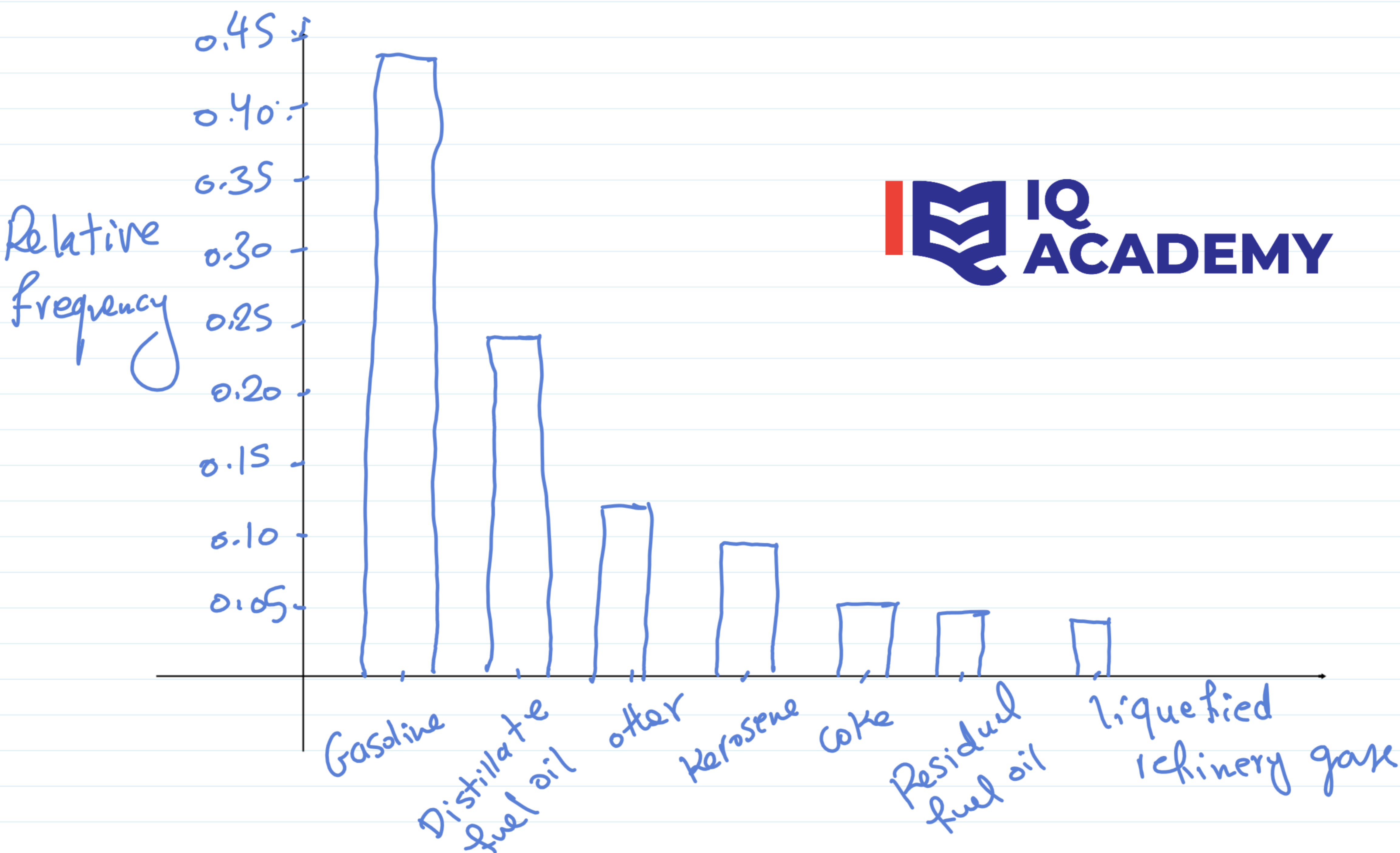
United States	15	Mexico	4
Italy	4	Morocco	1
Ethiopia	1	Great Britain	1
South Africa	2	Brazil	2
Tanzania	1	New Zealand	1
Kenya	8		

Type of degree	Number	Relative frequency	Angle
United states	15	0.375	$0.375 \times 360 = 135$
Italy	4	0.1	36
Ethiopia	1	0.025	9
South Africa	2	0.05	18
Tanzania	1	0.025	9
Kenya	8	0.2	72
Mexico	4	0.1	36
Morocco	1	0.025	9
Great Britain	1	0.025	9
Brazil	2	0.05	18
New Zealand	1	0.025	9
Sum	40	1	360



25. **Barrel of Oil** Use a Pareto chart to display the data. The data represent how a 42-gallon barrel of crude oil is distributed. (Adapted from American Petroleum Institute)

Gasoline	43%	0.43
Kerosene-type jet fuel	9%	0.09
Distillate fuel oil (home heating, diesel fuel, etc.)	24%	0.24
Coke	5%	0.05
Residual fuel oil (industry, marine transportation, etc.)	4%	0.04
Liquefied refinery gases	3%	0.03
Other	12%	0.12



Distribution of 42-gallon barrel of Crude oil-