



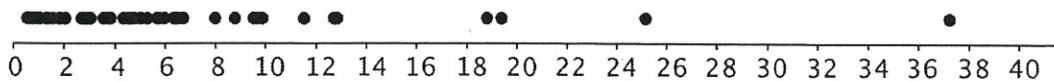
NAME _____

DATE _____

PERIOD _____

7.3: Population of States

Every ten years, the United States conducts a census, which is an effort to count the entire population. The dot plot shows the population data from the 2010 census for each of the fifty states plus the District of Columbia.



population of states in millions

- Here are some statistical questions about the population of the fifty states and DC. How difficult would it be to answer the questions using the *dot plot*? In the middle column, rate each question with an E (easy to answer), H (hard to answer), or I (impossible to answer). Be prepared to explain your reasoning.

statistical question	using the dot plot	using the histogram
a. How many states have populations greater than 15 million?	Easy	Easy
b. Which states have populations greater than 15 million?	Impossible	Impossible
c. How many states have populations less than 5 million?	Impossible	Easy
d. What is a typical state population?	Medium ^{neasy}	Easy → hard
e. Are there more states with fewer than 5 million people, or more states with between 5 and 10 million people?	hard	Easy
f. How would you describe the distribution of state populations?	easy-ish	

↑
typical, Spread, Cluster

- Here are the population data for all states and the District of Columbia from the 2010 census. Use it to complete the table.

NAME _____

DATE _____

PERIOD _____

Alabama	4.78	Illinois	12.83	Montana	0.99	Rhode Island	1.05
Alaska	0.71	Indiana	6.48	Nebraska	1.83	South Carolina	4.63
Arizona	6.39	Iowa	3.05	Nevada	2.70	South Dakota	0.81
Arkansas	2.92	Kansas	2.85	New Hampshire	1.32	Tennessee	6.35
California	37.25	Kentucky	4.34	New Jersey	8.79	Texas	25.15
Colorado	5.03	Louisiana	4.53	New Mexico	2.06	Utah	2.76
Connecticut	3.57	Maine	1.33	New York	19.38	Vermont	0.63
Delaware	0.90	Maryland	5.77	North Dakota	0.67	Virginia	8.00
District of Columbia	0.60	Massachusetts	6.55	North Carolina	9.54	Washington	6.72
Florida	18.80	Michigan	9.88	Ohio	11.54	West Virginia	1.85
Georgia	9.69	Minnesota	5.30	Oklahoma	3.75	Wisconsin	5.69
Hawaii	1.36	Mississippi	2.97	Oregon	3.83	Wyoming	0.56
Idaho	1.57	Missouri	5.99	Pennsylvania	12.70		

Population of States

Frequency Table

how often something occurs

population in millions	frequency
0--4.99	
5--9.99	
10--14.99	
15--19.99	
20--24.99	
25--29.99	
30--34.99	
35--39.99	

3. Use the grid and the information in your table to create a histogram.

This is a histogram

