## 8.1.D1 ~ Representing Data

Past due on

Period

Construct a dot plot for each data set. Then, describe the data distribution - symmetric, skewed right, or skewed left - and interpret its meaning in terms of the problem situation. (If necessary, refer to the 8.1 example "Representing & Interpreting Data Displayed on Dot Plots" in the Chapter 8 Summary.)

1)

		_
Sal	es	Tax

State	Percent
South Dakota	4
Alabama	4
Mississippi	7
Oregon	0

State	Percent
Indiana	7
Idaho	6
Ohio	6
Delaware	0

State	Percent
Nebraska	6
New Jersey	7
Illinois	6
South Carolina	6

State	Percent
New Mexico	5
New Hampshire	0
Pennsylvania	6
Massachusetts	6

2)

## Birth Rate

Country	Births/woman
Ecuador	2
Equatorial Guinea	5
Japan	1
Cook Islands	2
Thailand	2
Belize	3

Country	Births/woman
Mali	6
Qatar	2
Nepal	2
Costa Rica	2
Egypt	3
Andorra	1

Country	Births/woman
Sierra Leone	5
Azerbaijan	2
Sweden	2
Ireland	2
Tonga	3

Construct a box-and-whisker plot for each data set. Then, describe the data distribution - symmetric, skewed right, or skewed left - and interpret its meaning in terms of the problem situation. (If necessary, refer to the 8.1 example "Representing & Interpreting Data Displayed on Box-and-Whisker Plots" in the Chapter 8 Summary.)

3) Average Time to Maturity

Plant

Kale

Jersey Tomato	74
Scallion	120
Red Onion	95
Soy Bean	70
Zucchini	50
Lima Bean	75
Corn (Silver Queen)	92
Red Lettuce	50

60

4)

Age Assumed Office

Senator	Age
Bob Corker	54
Ben Cardin	63
Ron Wyden	46
Tim Johnson	50
Ted Cruz	42

Senator	Age
John Thune	43
Jeff Sessions	50
Debbie Stabenow	50
Jeff Merkley	52
Mazie Hirono	65

Construct a histogram for each data set. Then, describe the data distribution - symmetric, skewed right, or skewed left - and interpret its meaning in terms of the problem situation. (If necessary, refer to the 8.1 example "Representing & Interpreting Data Displayed Histograms" in the Chapter 8 Summary.)

5) Life Expectancy

State	Years
Maine	79.1
Wisconsin	79.8
North Dakota	80.2
Florida	81.7
District of Columbia	77.9
Indiana	81.3
Idaho	81.4
California	80.9
Colorado	80.9

6) Birth Rate

Country	Births/woman
Mexico	2.29
Malta	1.54
Philippines	3.06
Singapore	0.8
Jamaica	2.05
Norway	1.86
Slovakia	1.39
Vanuatu	3.36
Latvia	1.35

Solve the quadratic equation using ANY algebraic method: factoring, square roots, completing the square, or the quadratic formula. If necessary, approximate your solutions to the nearest hundredth.

7) 
$$2v^2 - 3v - 31 = 4$$

8) 
$$3n^2 - 12n - 30 = -11$$

9) 
$$x^2 + 6x - 48 = 3$$

10) 
$$5n^2 + 33n + 11 = -7$$